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### The East Australian current 1978

F.M. Boland ... J.A. Church

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#### Abstract

A series of 14 cruises followed the evolution of the East Australian Current during 1978. The current, identified by a warm core, was observed to separate from the coast at a number of locations. In the north of the observation area, the current consisted of areas of high geopotential that drifted slowly south. Part of the flow separating from the coast was recirculated to the north and the remainder flowed east. There was some indication that cyclonic eddies seen north of this easterly flow drifted to the west. In the southern part, anticyclonic eddies were the dominant features and, in the second half of the year, two of these formed and interconnected pair. The southward progression of warm fronts leads to the advection of surface water around previously isolated eddies and rapid changes in surface temperature patterns.



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