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Fish teeth and tectonic plates tell a new story about world's largest procurrent

Eossil-fish teeth recreased from the ocean floor around Tasmania have shed new light on the origins of the world's largest ocean current, according to a paper released in Nature tomorrow (Thursday 30 July 2015).

fish teeth recovered from drilling of the ocean floor, name with the study of tectonic movements by Dr Joanne Whittaker of the University of Tasmania's Institute for Marine and Antarctic from the University of Sydney has revealed how the study of water around Antarctica began.

"The Antarctic Circumpals (ACC) is the world's largest ocean current. It flows clockwise around Antarctica because there are no land masses in the way and it plays a in maintaining the large ice sheets on Antarctica because it keeps warmer ocean waters away," Dr Whittaker explained.

"Despite its in stabilising Antarctic ice sheets, the onset of the Antarctic Circumpolar Current has been poorly understood.

"Tasmania separating from Antarctica about 35 million separating f

Different oceans have distinct chemical (termod isotopic) "fingerprints" and this difference in the seawater is recorded in fish teeth that settle on the ocean floor, with the isotopes in their teeth preserving the seawater composition at their time of the local settle of the local set

The records show how Tasmania once formed a barrier between Pacific and Indian once some but as they apart water from the Indian Ocean, and then from the Indian Ocean to the Pacific, as it still does today.

These changes in ocean nimetation are selection to place