

The need for magnetic measurements along Puysegur and the history of spreading between AUS and PAC

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Seafloor spreading provinces

Red = E. Ant- W. Antarctica

Pink = Pacific-Australia

Purple = Macquarie-Antarctic

Blue = Pac-Ant

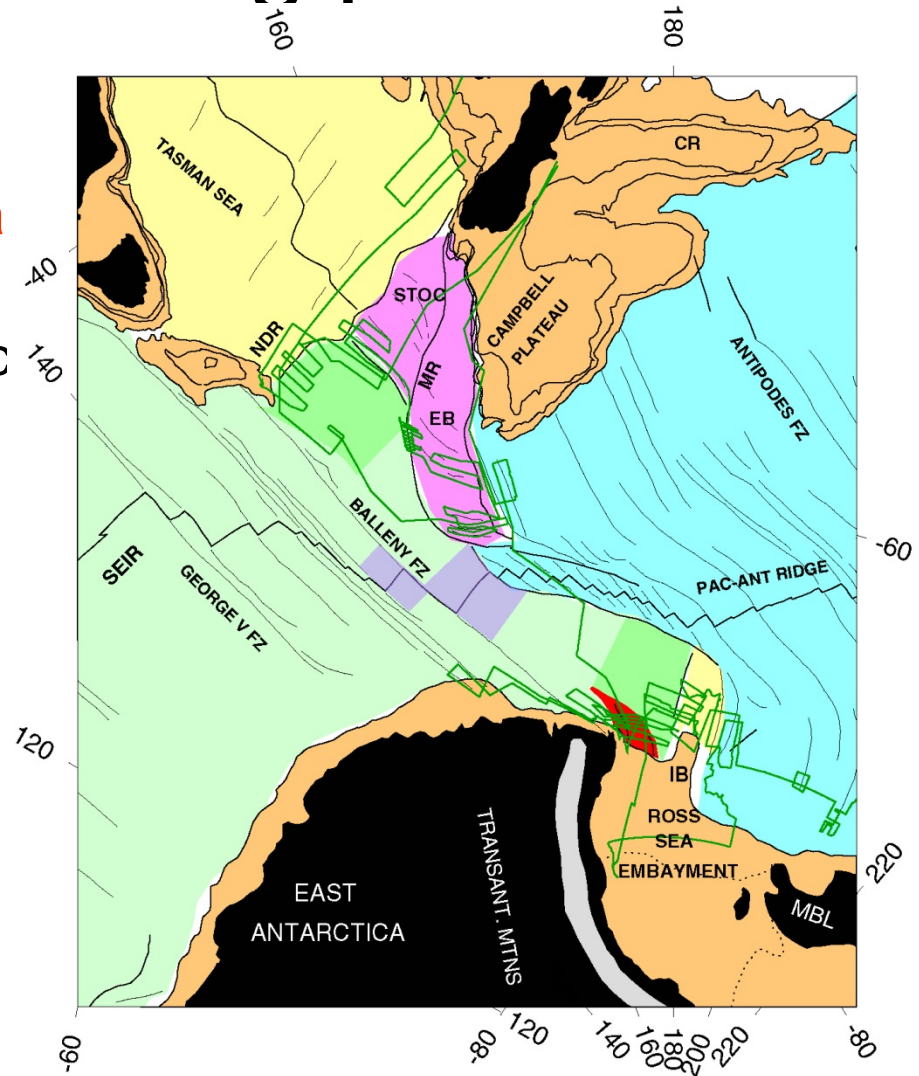
Lt green = Aus-E. Ant

Dk green = Aus-W. Ant

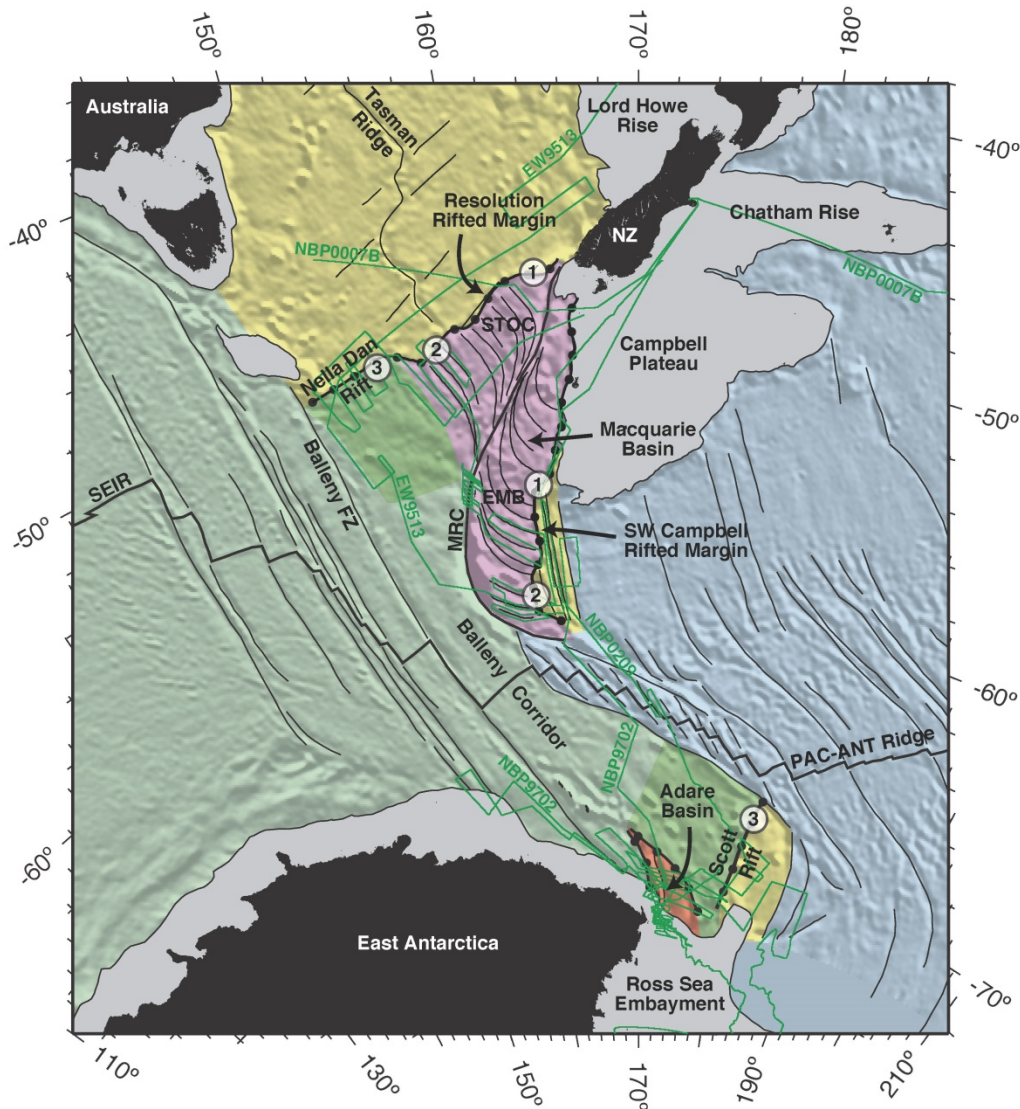
Yellow = Tasman Sea

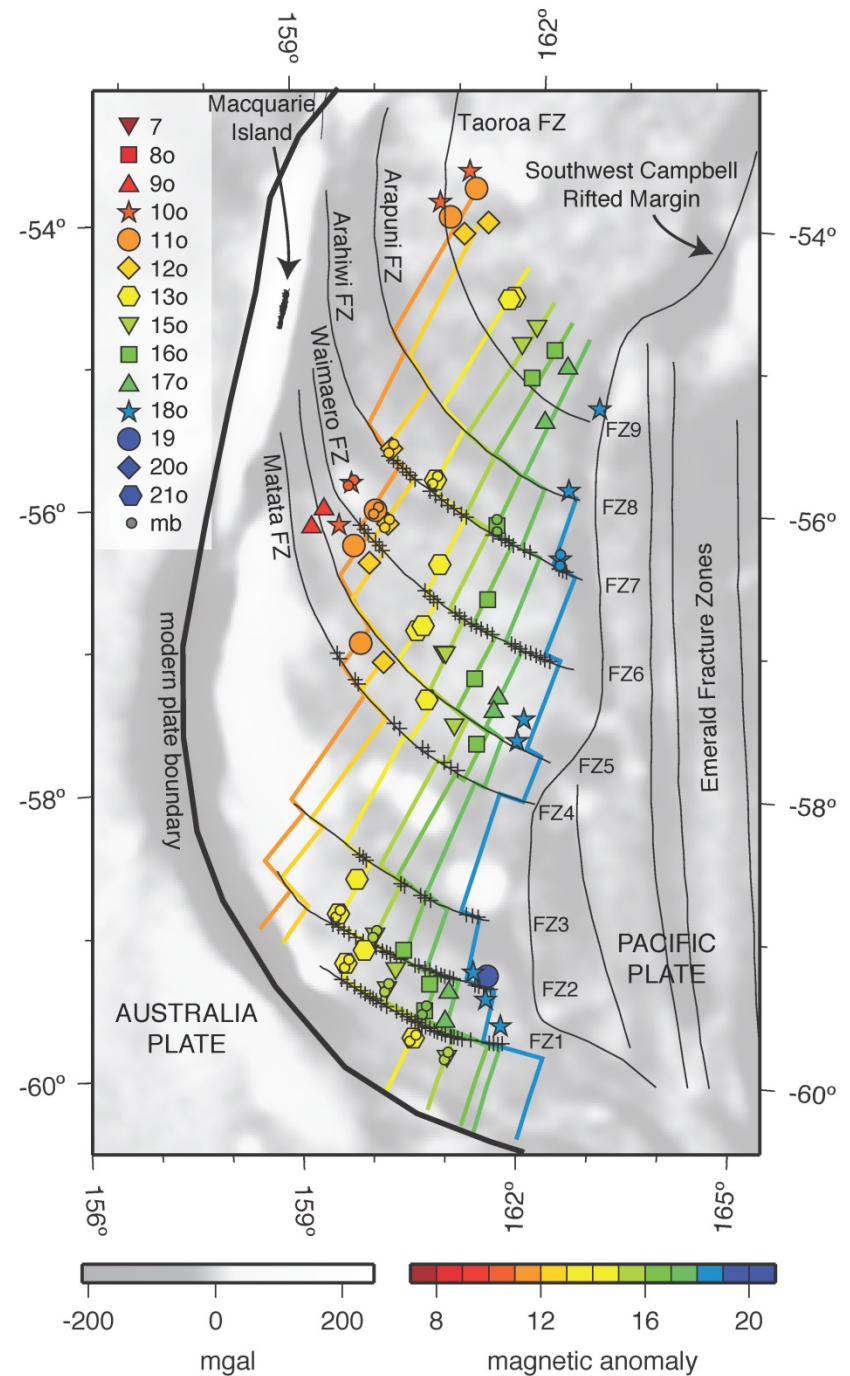
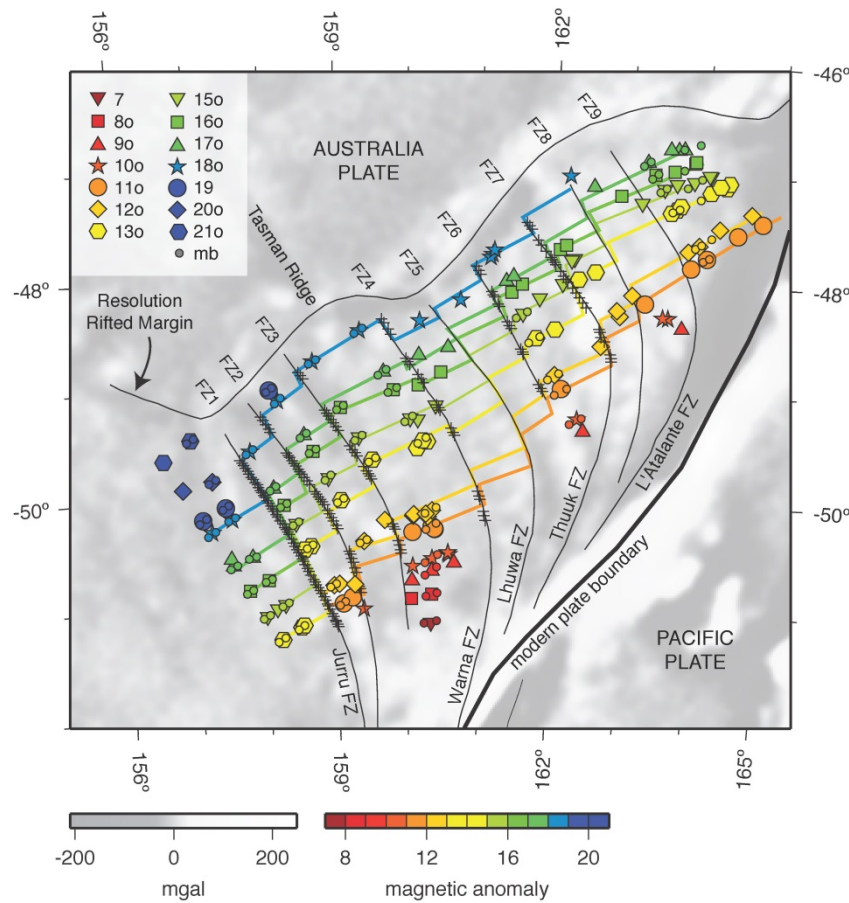
Green lines -- ship tracks

Orange = "continental"



Province boundaries from Keller (2004)





J. Stock

GeoPrisms Mini
Puysecur

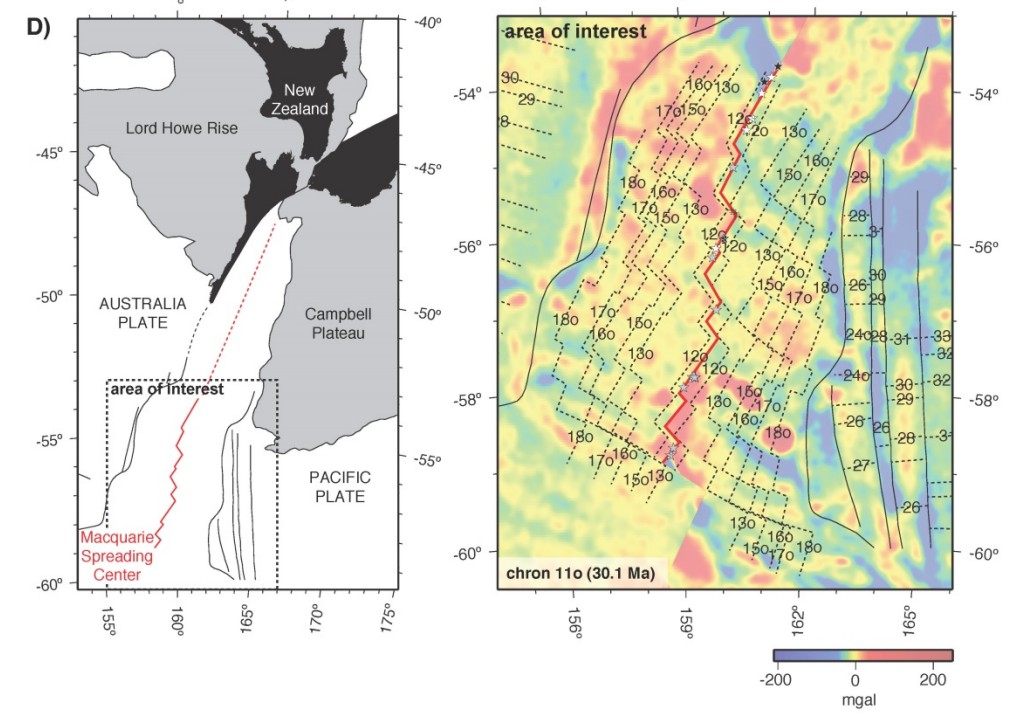
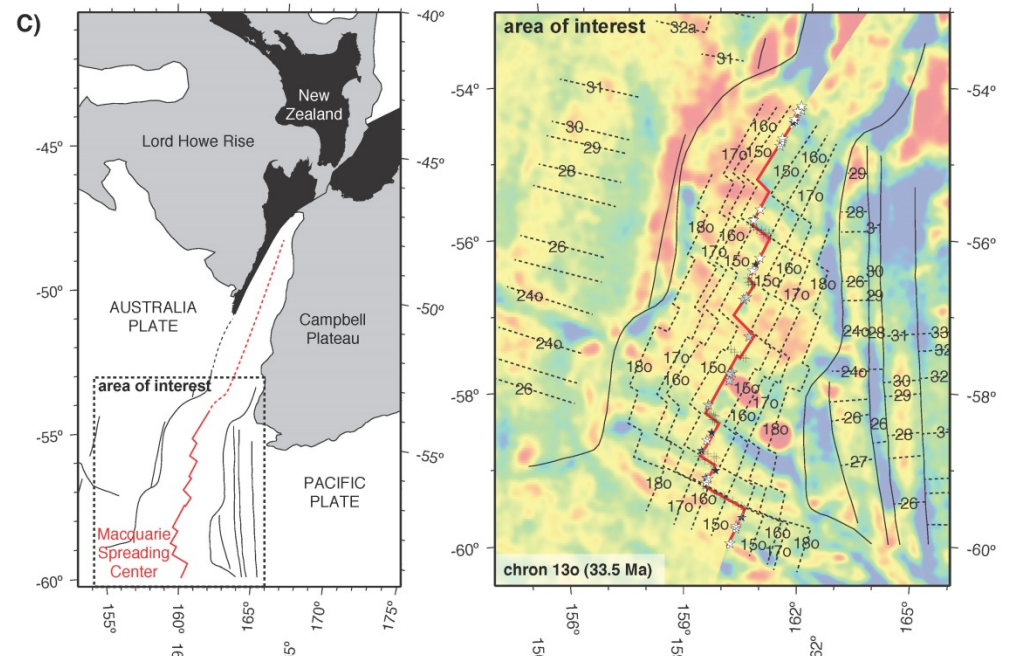
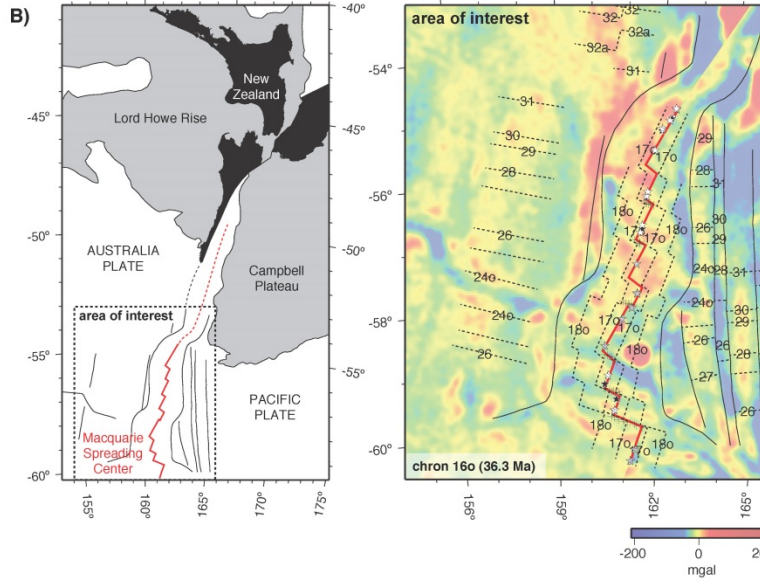
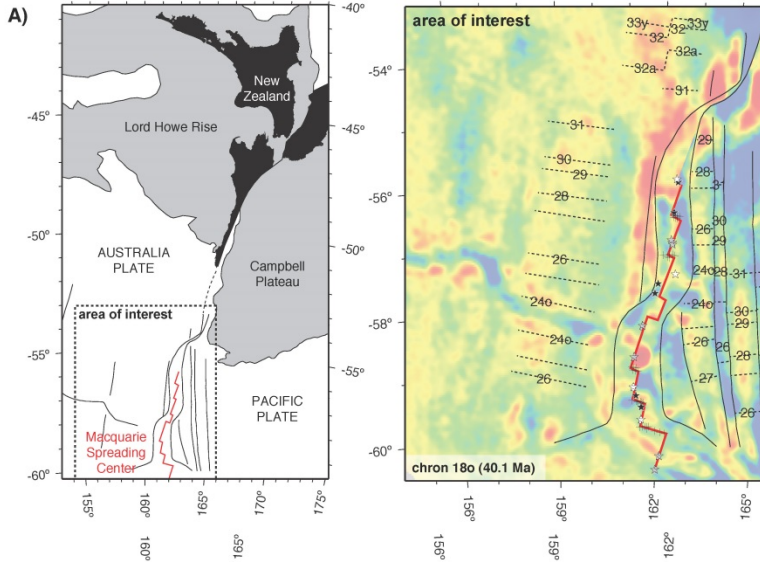
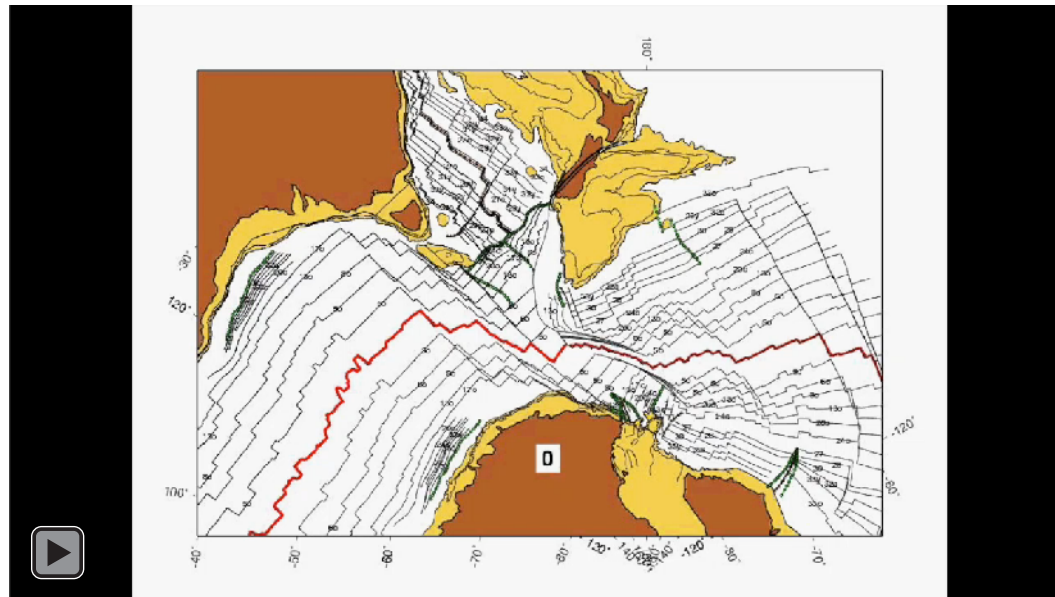
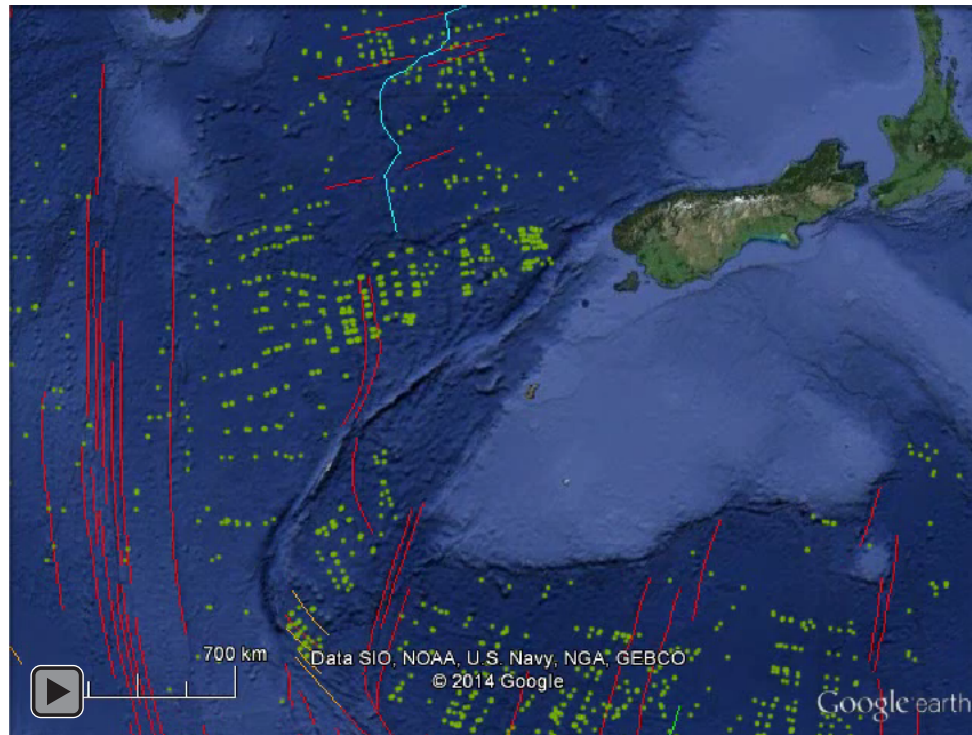


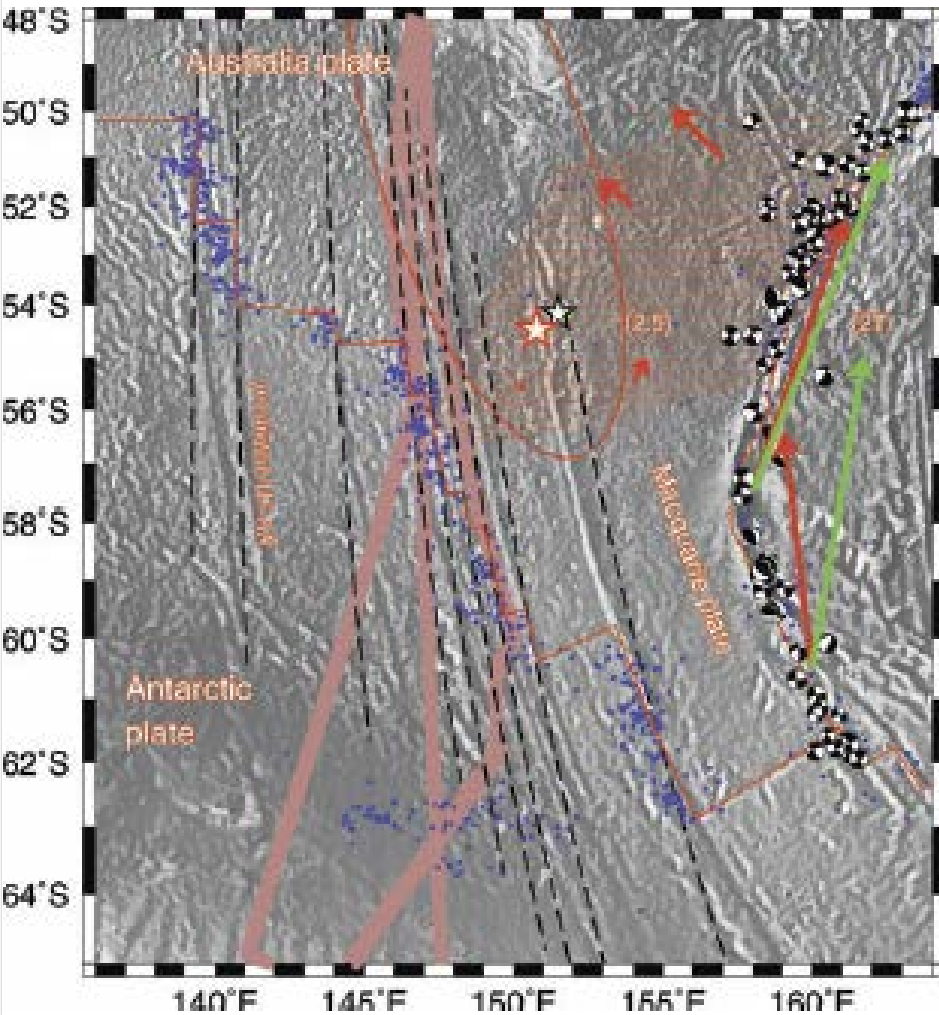
Plate Motion Movie from Steve Cande



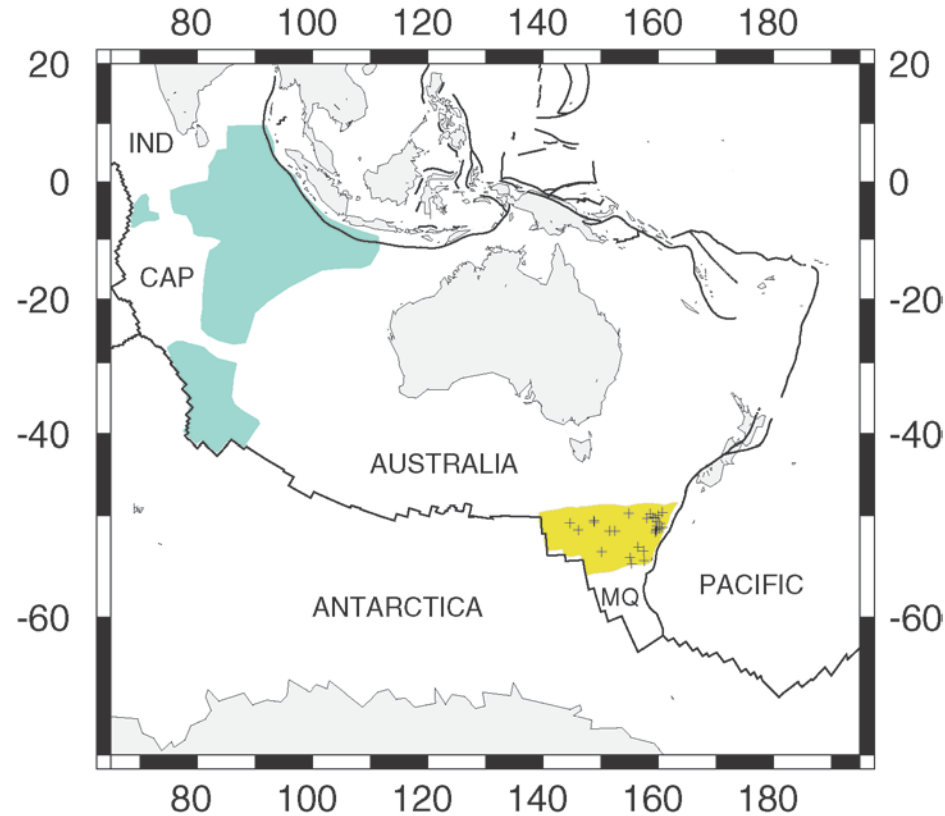
Magnetic anomaly picks from GSFML data base



The modern Australia plate



DeMets et al. 2010 (MORVEL model)



Cande & Stock 2004: Macquarie Plate; Diffuse deformation zone adjacent to trench – (intraplate earthquakes from Valenzuela & Wyession, 1993)