



Australian Government

Australian Research Council

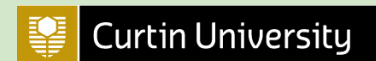
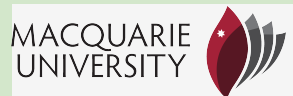


Greenfield identification

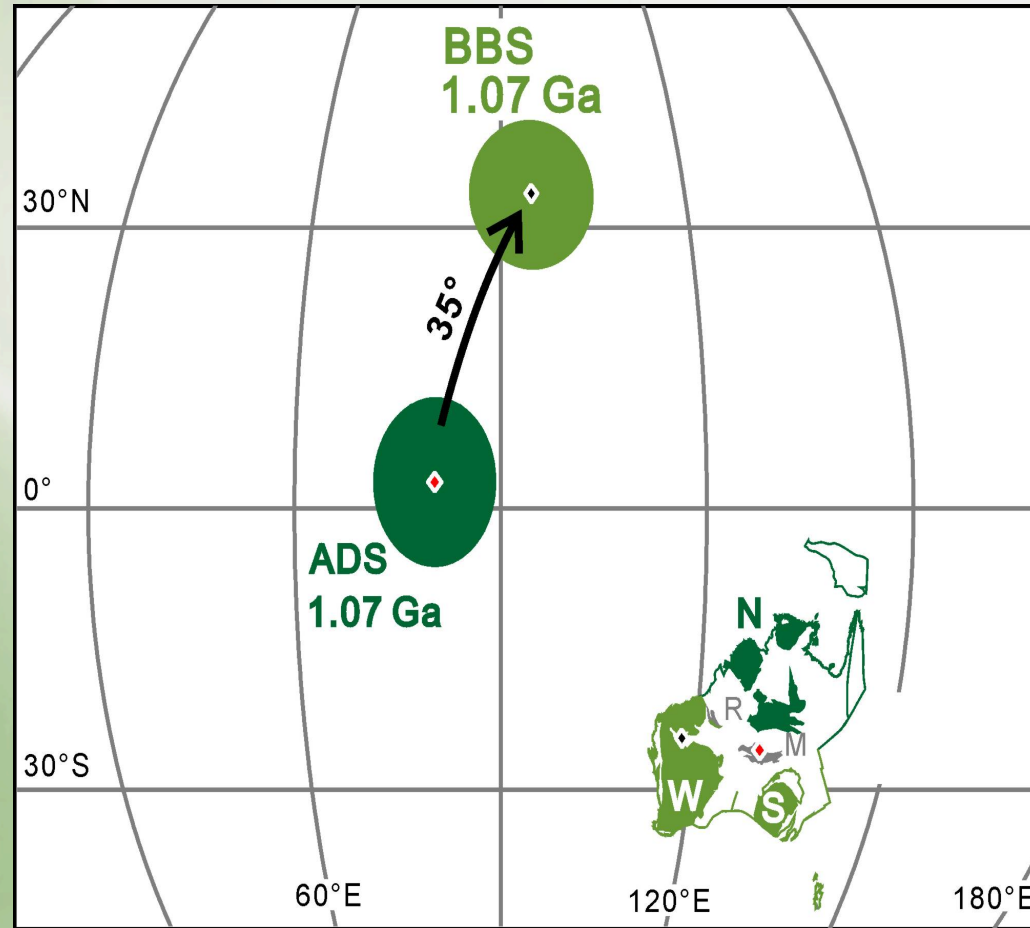
— *Big picture matters*

Zheng-Xiang Li

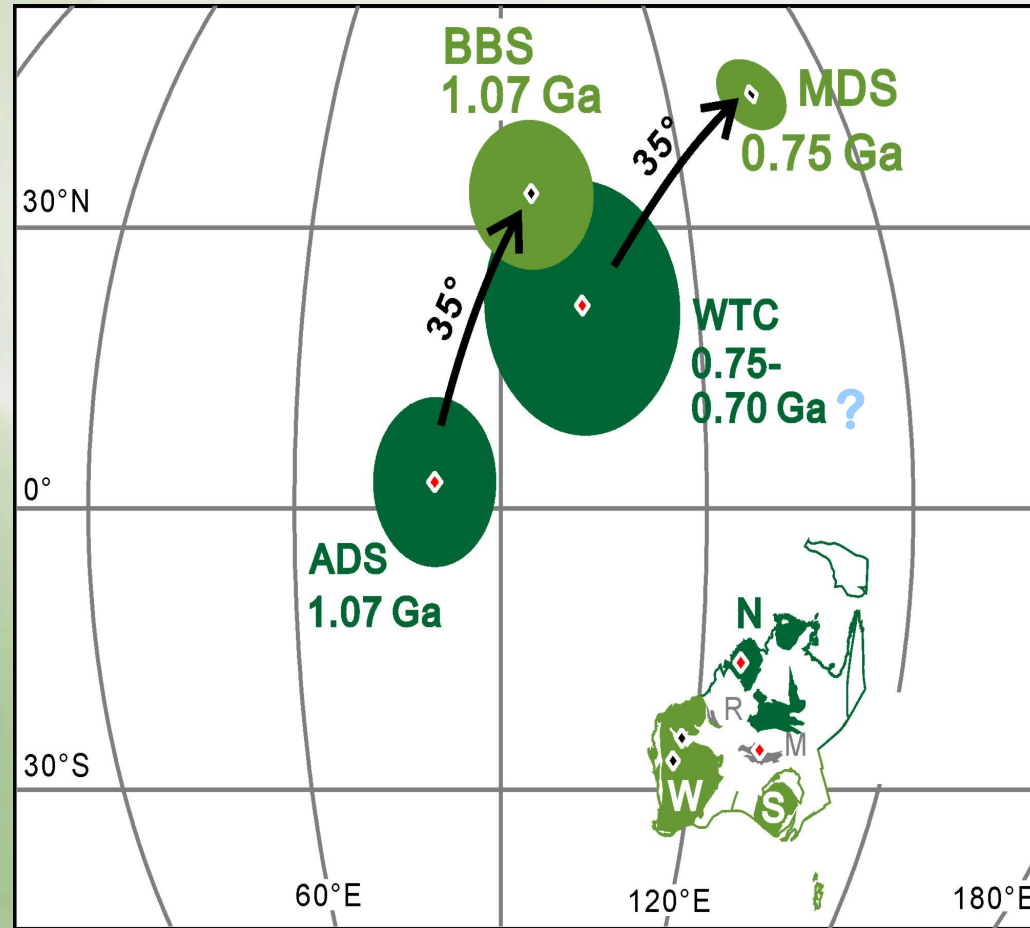
**ARC Centre for Core to Crust Fluid Systems
Curtin University**



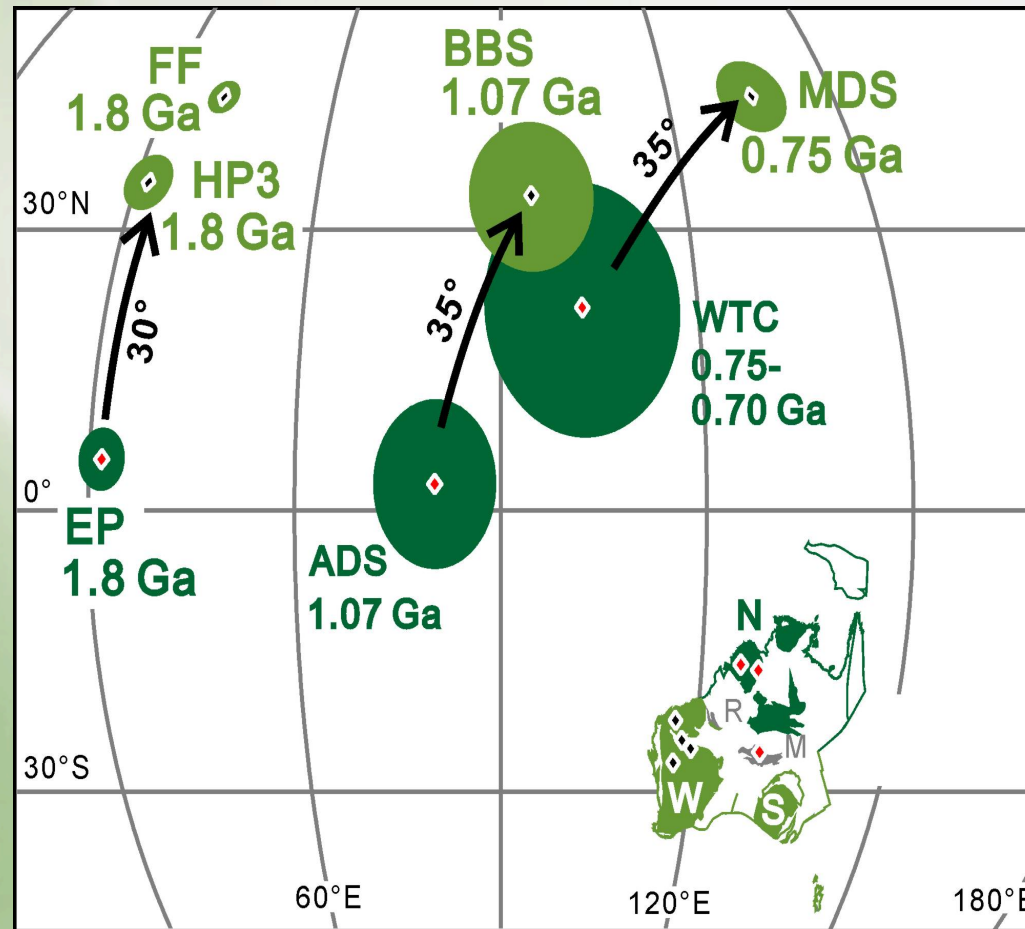
A systematic difference between N & S Australian palaeomagnetic poles:



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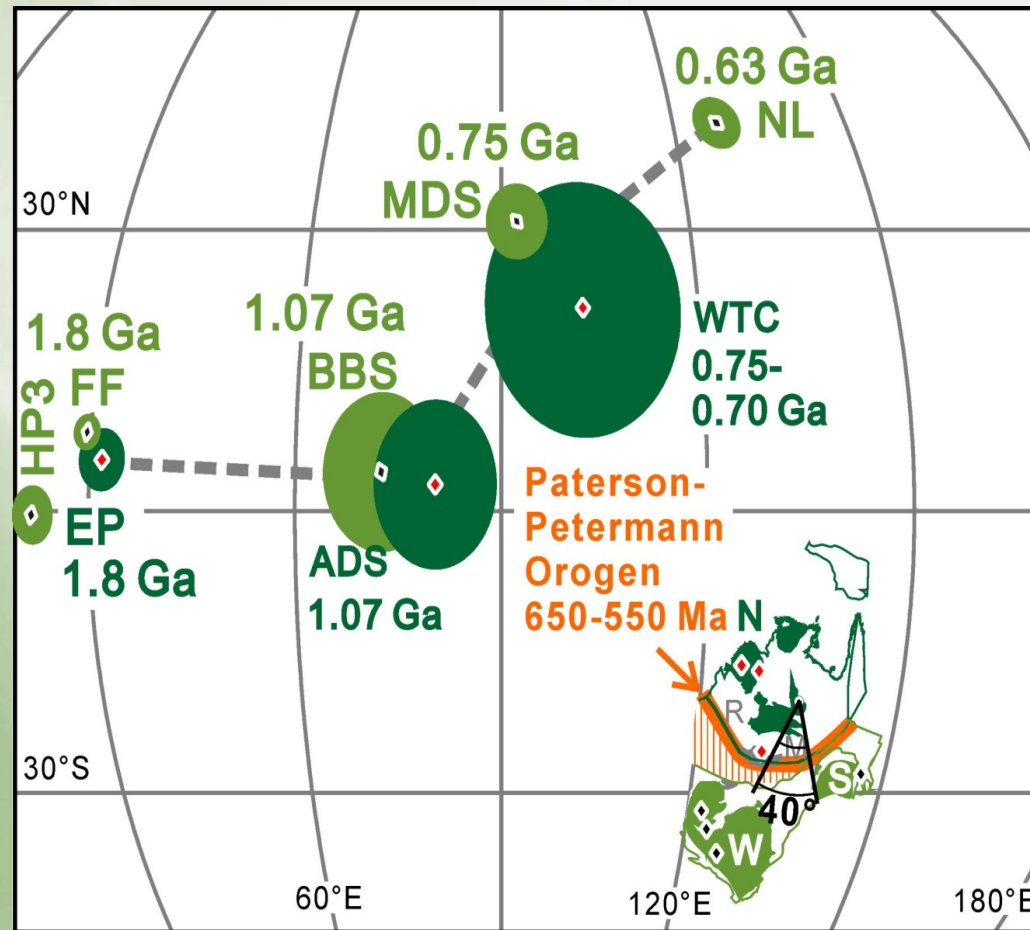
A systematic difference between N & S Australian palaeomagnetic poles:



Problem turned into a solution:



Australia before 650 Ma



Before 650 Ma

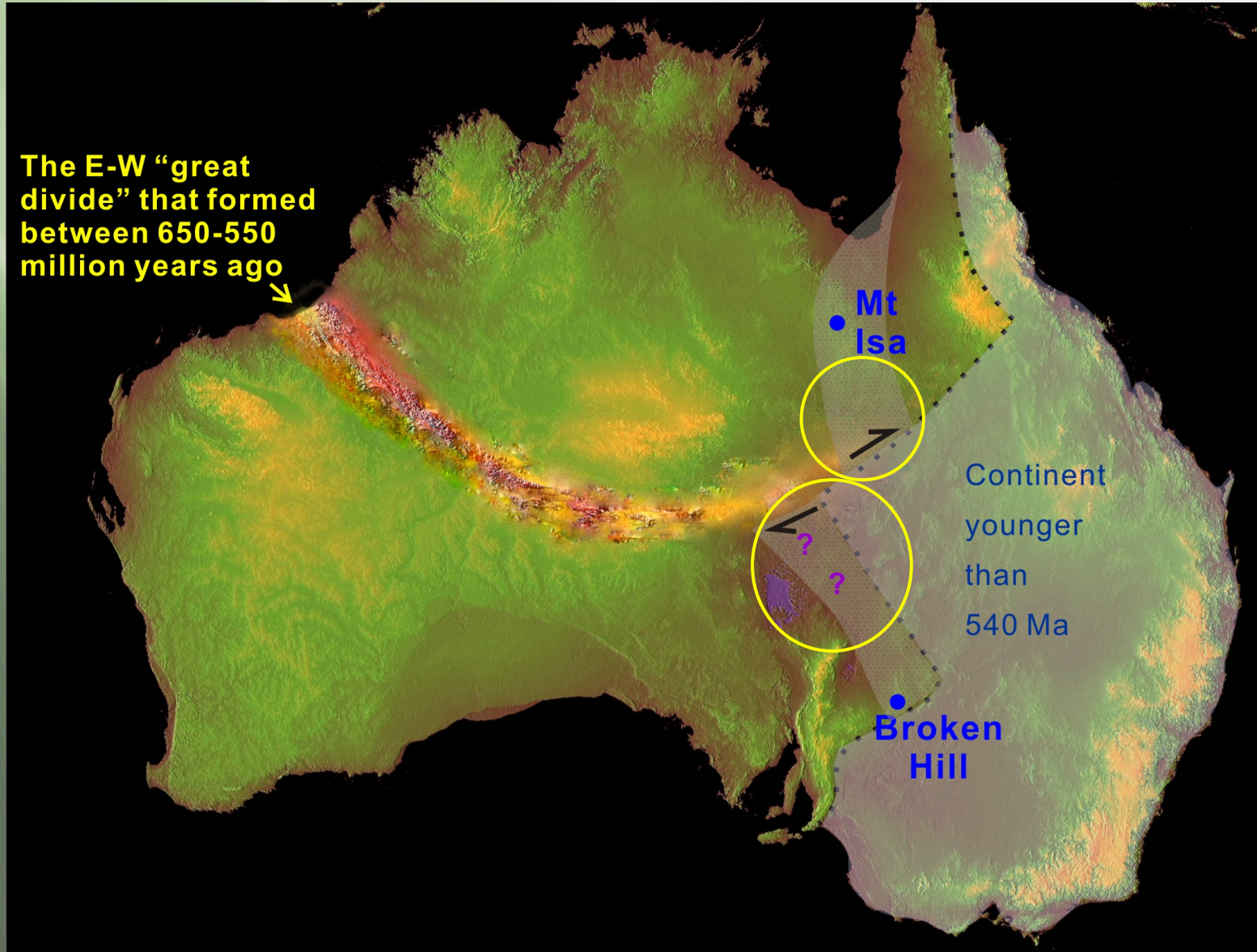
After 650 Ma



Support the Mt Isa-Broken Hill connection

Giles et al., 2004; Betts and Giles, 2006

Greenfield identification:



The E-W "great divide" that formed between 650-550 million years ago

Mt Isa

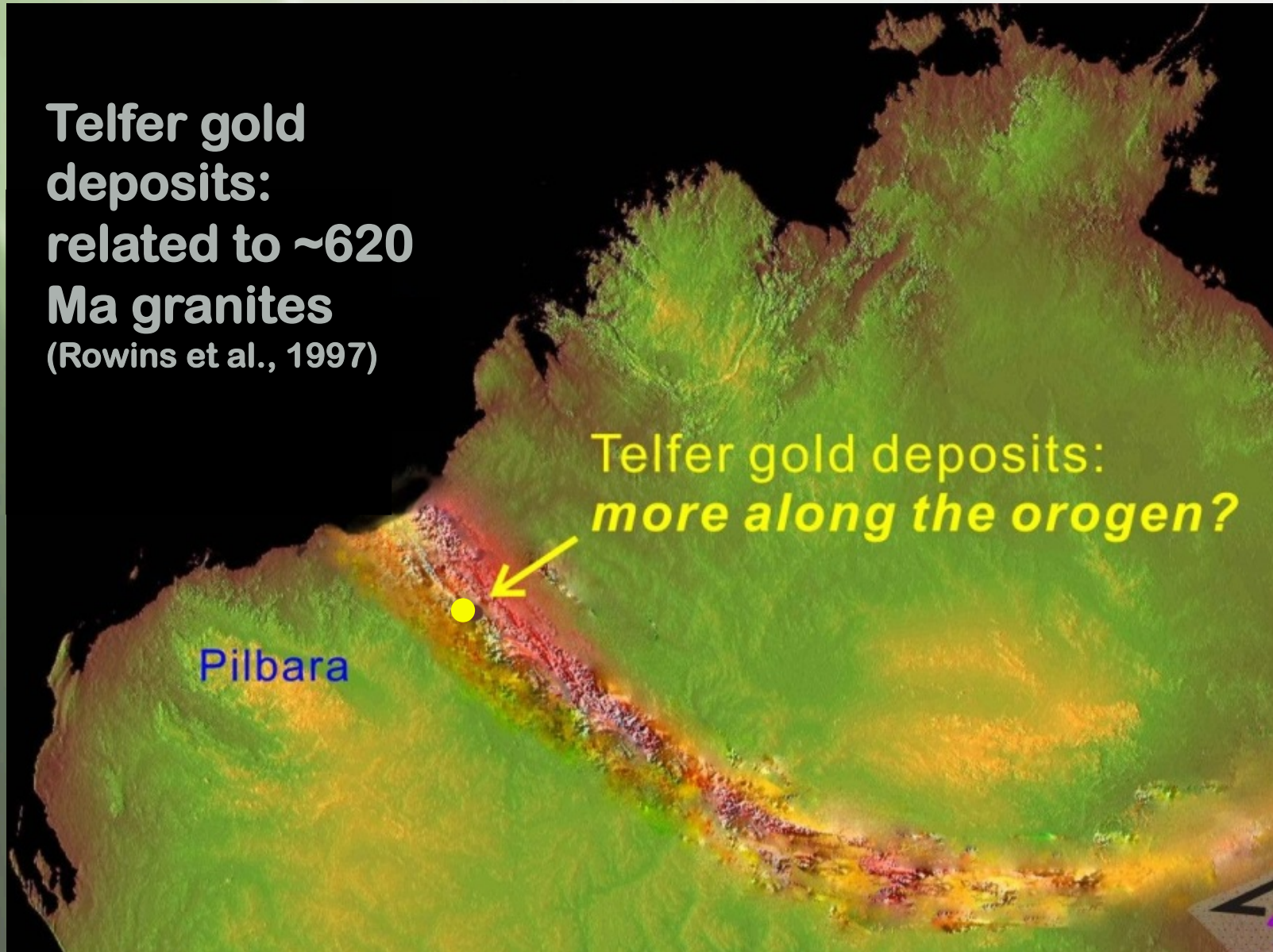
Continent younger than 540 Ma

Broken Hill

Greenfield identification:



**Telfer gold deposits:
related to ~620
Ma granites
(Rowins et al., 1997)**



**Telfer gold deposits:
*more along the orogen?***

Pilbara