

TN365 Marion Rise Cruise

International Collaborative Expedition : US-Germany-China
 36 day cruise - RV Thompson - Durban to Cape Town

Chf Scientists:

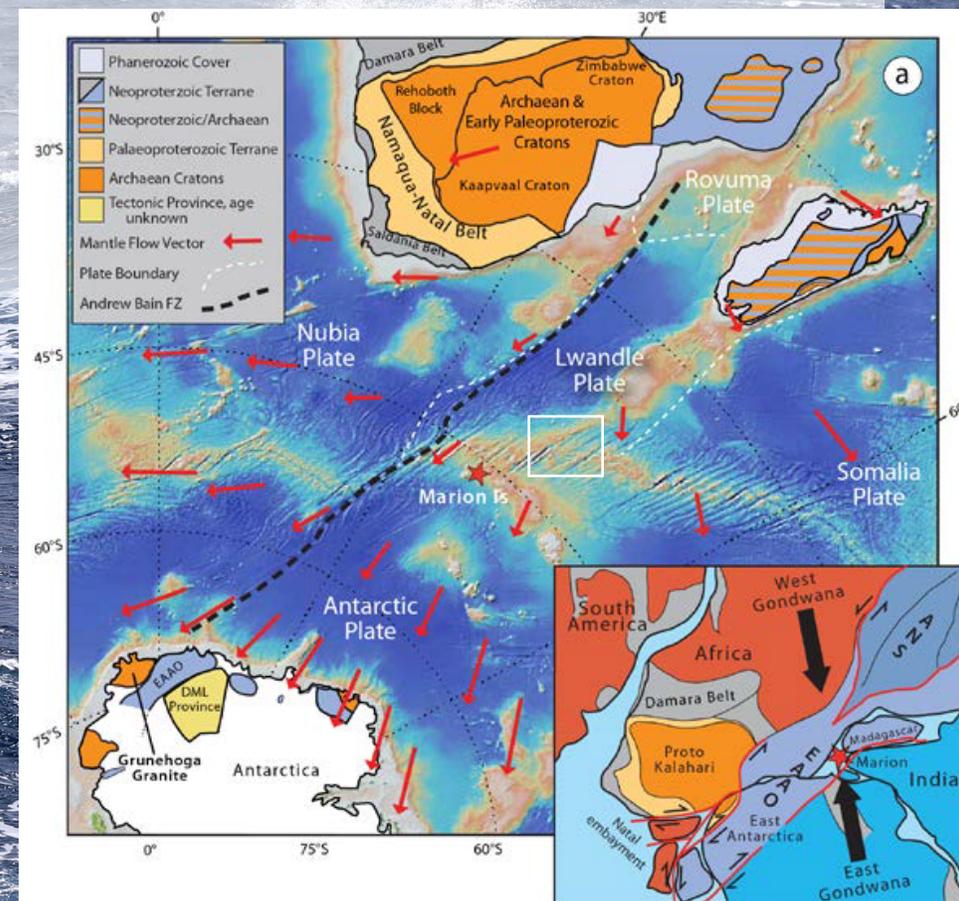
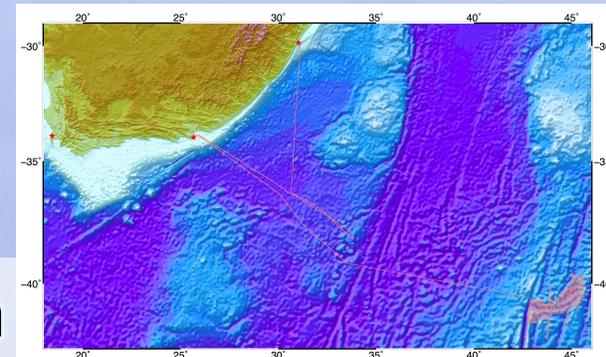
Henry Dick, WHOI, USA

Jurgen Koepke, Hannover, Germany

Huaiyang Zhou, Tongji Univ., China

Focus on ultraslow spreading segments of Marion Rise from Discovery to Indomed FZs on SWIR.

Objective: To test the hypothesis that Marion Rise is isostatically supported by residual Gondawan mantle as opposed to hot mantle and thick crust of a hotspot plume.



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- **Geophysical mapping** : (Bathy, Mag, Grav)
4998 km survey + 3749 km transit
- **Rock Dredging** : 33 dredges
- **Sentry dives**: 5 dives + waveglider nav
Mapping: swath bathy, mag, plume sensors, MAPR
273 km of tracklines

For details see talks and posters AGU session
T13A-01 (Dick), T21D-0365 (Tivey)

