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Room: Poster

Spreading tectonics of Southwest Indian Ridge from geophysical data

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During 1998 INDOYO cruise on Southwestern Indian Ridge, we obtained data of topography, acoustic reflectivity, gravity and magnetic field. The principal objective of the program was to obtain geophysical data between magnetic anomaly 5 and the South west Indian Ridge axis to constrain the tectonic and volcanic history of the ridge over the past 10 million years. The average spreading rate for the SWIR is documented as 7.5 mm/yr (half rate), although little is known of the variations in rate or spreading symmetry because few data exist as systematic surveys across axis, and anomalies are poorly formed and hard to identify on widely-spaced random tracks.