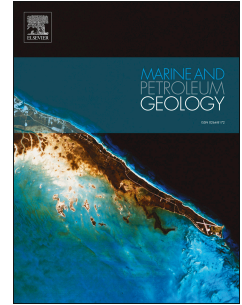


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Contribution of global potential field data to the tectonic reconstruction of the Rio Grande Rise in the South Atlantic

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1 **Contribution of Global Potential Field Data to the Tectonic Reconstruction of the Rio**

2 **Grande Rise in the South Atlantic**

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9 **Highlights**

- 10 • The Rio Grande Rise (South Atlantic) was studied based on potential field data
- 11 • Regional gravity low indicates crustal thickness beneath the Rio Grande Rise
- 12 • Magnetic anomalies shed light on the Rio Grande Rise tectonic evolution
- 13 • Oceanic fracture zones control the development of the rise
- 14 • Simplified reconstruction model of the Rio Grande Rise is proposed and discussed

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