



Meso-Cenozoic Brazilian Offshore Magmatism

Geochemistry, Petrology, and Tectonics

Edited by : **Anderson Costa Dos Santos**, Adjunct Professor, Universidade do Estado do Rio de Janeiro, Departamento de Mineralogia e Petrologia (DMPI), Tektos and GeoBioTec groups member, Rio de Janeiro, Brazil. and **Peter Christian Hackspacher**, Senior Professor, Universidade do Estado do Rio de Janeiro, Departamento de Mineralogia e Petrologia (DMPI), Rio de Janeiro, Brazil.

ISBN: 978-0-12-823988-9

VOLUME:

EDITION: 1

PUB DATE: November 2021

LIST PRICE: \$150.00

DISCOUNT: Non-serials

FORMAT: Paperback

TRIM: 7.5w x 9.25h

PAGES: c. 300

Approx. 250 illustrations (180 in full color)

AUDIENCE: Exploration geologists; oil and gas industry. Academic and research scientists in geology, oceanography, environmental sciences, economical geology; experts in petroleum engineering

SHELVING CLASSIFICATIONS:

Geology

BISAC CODES: RBG

THEMA CLASSIFICATION:

THEMARBG

A comprehensive overview of all scientific evolution related to the Brazilian offshore magmatism

KEY FEATURES

- Integrates independent studies and research of the Brazilian offshore magmatism and tectonics into a single book
- Includes new seamount and island data that was previously unavailable to the public
- Introduces case studies to provide real-world examples of volcanism and scientific evolution

DESCRIPTION

Meso-Cenozoic Brazilian Offshore Magmatism: Geochemistry, Petrology and Tectonics presents detailed studies from different points-of-view on the geological—particularly magmatic—evolution of the Brazilian and South Atlantic Ocean offshore areas. This comprehensive book on geological events will help readers understand the holistic evolution of the area across geographical boundaries. Each chapter consists of an introduction, regional and local geology, methods, results, discussions, conclusions and supplementary material related to the geological development in island and seamounts in the Brazilian Platform and seafloor.

RELATED TITLES

9780128096635; 9780444530424; 9780444563569; 9780128160091



*Prices are subject to change without notice. All Rights Reserved.



EARTH & ENVIRONMENT Applied Geoscience
www.virtuale.elsevier.com, www.elsevier.com

Table of Contents

1. South Atlantic Ocean: Post-breakup configuration and Cenozoic magmatism
2. Analysis and evolution of South Atlantic fracture zones their tectonic behavior in south and southeast Brazil's edge
3. Islands and Seamounts ridge geomorphology: Integrated seismic and potential field data
4. The Singular St. Peter and St. Paul Archipelago, Equatorial Atlantic, Brazil
5. Genesis and evolution of the Fernando de Noronha Island
6. The Arolhos Magmatic Complex: A case study of a massive post-rift volcanism affecting the Brazilian rifted margin
7. Uplift and subsidence of the RGR: U-Th/He in apatite and EPFT in zircon
8. The role of Rio Grande aulacogen on the continental Mesozoic-Cenozoic alkaline magmatism
9. The Trindade Island: geology and evolution of the geological knowledge
10. Martin Vaz Archipelago: The youngest magmatism in the Brazilian Territory
11. Vitoria-Trindade Seamounts: Undersaturated alkaline series evolution from an enriched metasomatized source
12. Equatorial Margin: Lithospheric control on seamounts genesis

