

INSTRUCTIONS TO AUTHORS

PURPOSE AND EDITORIAL POLICY

The *Brazilian Journal of Geophysics – BrJG* (formerly *Revista Brasileira de Geofísica*) is a quarterly journal of the Brazilian Geophysical Society (SBGf), with arbitration and open access, devoted to the national and international dissemination of original scientific and technical articles related to research in geophysics and geophysical applications in the areas of Geological Sciences, Oceanography, Atmospheric Sciences, and Space Sciences. The topics of interest comprise twelve areas:

1. Seismic Methods

(ex: Acquisition, processing and seismic imaging, Modeling and inversion of the seismic data, Seismic methods applications to prospecting of oil and gas, etc.)

2. Solid Earth Geophysics

(ex: Geodynamics, Tectonophysics, Geomagnetism, Paleomagnetism, Seismology, etc.)

3. Potential Methods and Geothermal Studies

(ex: Gamma spectrometry, Geothermics, Gravimetry, and Magnetometry applied to the environment, mineral resources, oil and gas and groundwater, etc.)

4. Electrical and Electromagnetic Methods

(ex: Direct and inverse modeling of electrical and electromagnetic methods, Electrical and electromagnetic method applications to the prospecting of mineral assets, oil and gas and groundwater, etc.)

5. Remote Sensing

(ex: Analysis of observation temporal series of the Earth, Geoprocessing, Image processing, Sensing applied to forest resources, agriculture, geoscience, etc.)

6. Near-Surface Geophysics, Environmental and Forensic Geophysics

(ex: Applications to environmental studies, archeology and forensic geophysics, etc.)

7. Marine Geophysics and Physical Oceanography

(ex: Coastal dynamics and physical oceanography, Coastal evolution of barrier/lagoon depositional systems, Glaciology and climatology, Hydrodynamics and transport processes in estuaries and coastal waters, etc.)

8. Space Geophysics and Aeronomy

(ex: Upper atmosphere, Ionosphere, Atmospheric electricity, Aeronomy, etc.)

9. Petrophysics and Well Logging

(ex: Petrophysics, Reservoir characterization, Application of petrophysics to problems of geoenvironmental and environmental geology, and Well Logging, etc.)

10. Computational Geophysics

(ex: mathematical modeling, simulation, data analysis, uncertainty, and high performance computing, etc.)

11. Machine Learning

(ex: applications in Geophysics; applications in High Performance Computing; Cloud Computing and other virtual computational environments; Digital Transformation in Geophysics; Big Data and the challenges of creating integrated Geophysics databases, etc.)

12. Geoscience Education

(ex: Best practices in Geoscience education, innovative teaching methods and materials, and dissemination of Geoscience, etc.)

In addition to original technical and scientific articles, the journal publishes review articles from guest authors and discussions. Thematic special issues may also be dedicated to a single topic, edited by invited experts.

Editorial work is fulfilled by Divisional Associate Editors (distributed according to the areas previously specified), Editorial Board members and a group of reviewers, whose names are announced periodically.

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PREPARATION OF THE MANUSCRIPT

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6. Before the Abstract, the article text must provide the area corresponding to the article substance (according to 1-10 aforementioned areas).

7. During submission, the author must suggest at least four names of possible reviewers, who are able to critically assess the manuscript submitted to *BrJG*.
8. The authors should detail any potential conflict of interest related to the submitted article. The conflict may be personal, commercial, political, academic or financial. If necessary, authors may request that the manuscript not be assessed at certain institutions or reviewers, in order to avoid possible conflicts of scientific interest.
9. Tables and figures should be inserted in the text, as quoted, and followed by their respective captions. Do not put captions on the figures themselves. In the text, citations of figures, tables and equations, only when appearing between parentheses, should be referred to in abbreviated form: (Figure 1), (Figures 2 and 3), (Table 1) and (Tables 2 and 3), for example.
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14. Authors should provide clear instructions on the composition of symbols in formulas or equations. Equations should be numbered by Arabic numerals in brackets and in sequence on the right side of the sheet. In the text, they shall be referred to as equations 1, 2 and 3, for example.
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16. Subtitles are positioned to the left margin and the conventional structure of scientific articles should be observed, whenever possible, in the following order (the sections titles are just a suggestion):

INTRODUCTION

METHODOLOGY

Theoretical Revision

Laboratory Measurements

RESULTS

DISCUSSION

CONCLUSION

ACKNOWLEDGMENTS

APPENDIX

REFERENCES

17. When necessary, acknowledgments and credits to the funding institutions should appear in the Acknowledgments section.
18. The appendix is an optional section that can include supplementary data and information to the main text. All appendix sections must be cited in the main text. In the appendixes, figures, tables, equations etc. should be labeled starting with “A” or “B”, e.g., Figure A1, Equation A1, etc.
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Ferreira, J. C., E. P. Leite, M. A. R. Vasconcelos, and A. P. Crósta, 2019, 3D gravity modeling of impact structures in basaltic formations in Brazil: Part II – Vista Alegre, Paraná. *Brazilian Journal of Geophysics* 37(1): 69-81. DOI: 10.22564/rbgf.v37i1.980

Rosa, A. L. R., 2018, *Análise do Sinal Sísmico*: Rio de Janeiro, RJ, Brazil: SBGf, 713 pp.

Mohriak, W. U., 2003, *Bacias Sedimentares da Margem Continental Brasileira: [Sedimentary Basins of the Brazilian Continental Margin]*: In: L. A. Bizzi, C. Schobbenhaus, R. M. Vidotti, and J. H. Gonçalves, eds., *Geologia, Tectônica e Recursos Minerais do Brasil*. Brasília, DF, Brazil: CPRM. chapter III. p. 87-165.

Meneguim, T. B., S. C. Mendes, A. R. Maul, L. F. Fernandes, M. G. Farias, and G. Gonzalez, 2015, Combining seismic facies analysis and well Information to guide new interval velocity models for a Pre-Salt study, Santos Basin, Brazil. In: 14th International Congress of the Brazilian Geophysical Society & EXPOGEF, SBGf: Rio de Janeiro, RJ, Brazil, 3-6 August 2015.

Poletti, W., 2018. *Archaeomagnetic Field Intensity Evolution during the Last Two Millennia*. PhD Thesis. Universidade de São Paulo – IAG. São Paulo, SP, Brazil.

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