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DESCRIPTION

The prime focus of Tectonophysics will be high-impact original research and reviews in the fields of kinematics, structure, composition, and dynamics of the solid earth at all scales. Tectonophysics particularly encourages submission of papers based on the integration of a multitude of geophysical, geological, geochemical, geodynamic, and geotectonic methods with focus on:

- Kinematics and deformation of the lithosphere based on space geodesy (e.g. GPS, InSAR), neotectonic studies, tectonic geomorphology, and geochronology;
- Structure, composition, and thermal state of the crust and mantle and their evolution in various time scales based on geophysical and geochemical studies;
- Structural geology, folding, faulting, fracturing, analysis of stress and strain, and rock mechanics;
- Orogenesis, tectonism, thermochronology, surficial processes, land-climate interactions, and Lithospheric-asthenospheric interactions;
- Active tectonics, seismology, mechanisms of earthquakes and volcanism, geological hazards and their societal impacts;
- Rheology and numerical modelling of geodynamic processes;
- Laboratory measurements of physical and chemical parameters of crustal and mantle rocks, and their application to geophysics and petrology;
- Innovative development, including testing, of new methods in geophysics and geodynamics.

Tectonophysics welcomes contributions of three types:

- Regular papers.
- Fast track papers for short, innovative rapid communication, which will usually be reviewed within three weeks after submission. More information about this paper type can be found within the Guide for Authors.
- Comprehensive invited review articles which provide an overview of significant subjects.

Abstracts of maximum 300 words describing the objectives of the research, and the rationale and methods (if relevant), should be included for all article types: regular, fast-track and invited review.

In addition Special Issues devoted to a single topic, and edited by an authority in that field, are also published.
AUDIENCE

Geophysicists, structural geologists.

IMPACT FACTOR

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ABSTRACTING AND INDEXING

AGI’s Bibliography and Index of Geology
Bulletin Signalétique
Current Contents
Engineering Village - GEOBASE
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Academic Search (EBSCO)
TOC Premier
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GUIDE FOR AUTHORS

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To find out more, please visit the Preparation section below.

INTRODUCTION
The prime focus of Tectonophysics will remain on high-impact original research and reviews in the fields of kinematics, structure, composition, and dynamics of the solid Earth at all scales. To better represent the changes we face today, Tectonophysics particularly encourages submission of papers based on the integration of a multitude of geophysical, geological, geochemical, geodynamic, and geotectonic methods with focus on:

- Kinematics and deformation of the lithosphere based on space geodesy (e.g. GPS, InSAR), neotectonic studies, tectonic geomorphology, and geochronology;
- Structure, composition, and thermal state of the crust and mantle and their evolution in various time scales based on geophysical and geochemical studies;
- Structural geology, folding, faulting, fracturing, analysis of stress and strain, and rock mechanics;
- Orogenesis, tectonism, thermochronology, surficial processes, land-climate interactions, and lithospheric-asthenospheric interactions;
- Active tectonics, seismology, mechanisms of earthquakes and volcanism, geological hazards and their societal impacts;
- Rheology and numerical modelling of geodynamic processes;
- Laboratory measurements of physical and chemical parameters of crustal and mantle rocks, and their application to geophysics and petrology;
- Innovative development, including testing, of new methods in geophysics and geodynamics.

Within this space, we are particularly keen to advance Tectonophysics' role in delivering scientific solutions to the pressing issues of our time, namely in reducing our vulnerability to the 'solid-earth' natural hazards and in resource development applications. With growing demand for access to Earth's resources and urgent needs to seek new solutions for dealing with harmful waste, we have enormous benefits to be gained from better a understanding of the physics of this extraordinary dynamic planet.

Types of Paper
Tectonophysics welcomes contributions of three types:

- Regular papers
- Fast Track papers are short, innovative, rapid communications, which will usually complete review within three weeks after submission. Fast track papers are limited to five manuscript pages (maximum 3000 words) and six small figures or equivalent. The editors will decide whether Fast Track submissions are indeed sufficiently innovative for such handling and in case of doubt communicate accordingly with the author.
- Comprehensive invited review articles which provide an overview of significant subjects

The first two types are relatively new to Tectonophysics. Fast track papers will facilitate publication of discoveries in new and dynamic areas, and review papers will help readers to quickly grasp the new development in an important field.
Abstracts, not to be confused with Graphical Abstracts, should be included for all article types: regular, review and fast-track. They provide a short and concise (maximum 300 words) description of the objectives of the research, and the rationale and methods (if relevant). An abstract should focus on presenting the key results and may end with short comments on the wider relevance and implications of the finding(s). It should not be regarded as a summary of the content of the paper and should stand alone. References should be avoided, but if essential, they must be cited with author(s) and year(s). Similarly, non-standard or uncommon abbreviations should be avoided, but if essential, they must be defined at their first mention in the abstract itself.

In addition, Tectonophysics will continue to publish special issues, a distinctive feature of our journal which offers a unique tool to focus in detail on all aspects of a specific subject matter. Special issues should be compiled with a clear objective to provide a coherent and complete set of papers thus adding real value to Tectonophysics. They should be guest-edited by leading researchers in the relevant field and all contributions subjected to the same vigorous review process as applied to the regular papers.

BEFORE YOU BEGIN

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Please see our information pages on Ethics in publishing and Ethical guidelines for journal publication.

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Divide the article into clearly defined sections.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

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*Theory/calculation*
A Theory section should extend, not repeat, the background to the article already dealt with in the Introduction and lay the foundation for further work. In contrast, a Calculation section represents a practical development from a theoretical basis.

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Results should be clear and concise.

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The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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Authors are encouraged to include a 'Data Availability' section in their manuscript which is visible in ALL reading formats and may refer to data hosted in ANY repository. It should be placed before the references to provide readers with information about where they can obtain the research data required to reproduce the work reported in the manuscript, and typically consists of a simple sentence giving the URL(s) of and citation(s) to the dataset(s). Full information can be found here.

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A concise and factual abstract is required. The abstract should state briefly the purpose of the research, the principal results and major conclusions. An abstract is often presented separately from the article, so it must be able to stand alone. For this reason, References should be avoided, but if essential, then cite the author(s) and year(s). Also, non-standard or uncommon abbreviations should be avoided, but if essential they must be defined at their first mention in the abstract itself.

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Although a graphical abstract is optional, its use is encouraged as it draws more attention to the online article. The graphical abstract should summarize the contents of the article in a concise, pictorial form designed to capture the attention of a wide readership. Graphical abstracts should be submitted as a separate file in the online submission system. Image size: Please provide an image with a minimum of 531 × 1328 pixels (h × w) or proportionally more. The image should be readable at a size of 5 × 13 cm using a regular screen resolution of 96 dpi. Preferred file types: TIFF, EPS, PDF or MS Office files. You can view [Example Graphical Abstracts](#) on our information site. Authors can make use of Elsevier's [Illustration Services](#) to ensure the best presentation of their images and in accordance with all technical requirements.

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Immediately after the abstract, provide a maximum of 6 keywords, using American spelling and avoiding general and plural terms and multiple concepts (avoid, for example, 'and', 'of'). Be sparing with abbreviations: only abbreviations firmly established in the field may be eligible. These keywords will be used for indexing purposes.

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Define abbreviations that are not standard in this field in a footnote to be placed on the first page of the article. Such abbreviations that are unavoidable in the abstract must be defined at their first mention there, as well as in the footnote. Ensure consistency of abbreviations throughout the article.

**Acknowledgements**

Collate acknowledgements in a separate section at the end of the article before the references and do not, therefore, include them on the title page, as a footnote to the title or otherwise. List here those individuals who provided help during the research (e.g., providing language help, writing assistance or proof reading the article, etc.).

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