**Title page:**

**Title: Word Template File for *Earth, Planets and Space　Version 20170104***

Author #1: full name, institutional address, email address

Author #2: full name, institutional address, email address

Author #3: full name, institutional address, email address

Author #4: full name, institutional address, email address

Indicate the corresponding author

Please note that EPS does not allow changing the author list after the submission.

(go to new page)

**Abstract**

The abstract of the manuscript should not exceed **350** words. Please minimize the use of abbreviations and do not cite references in the abstract. Below are guideline summaries.

There is no explicit limit on the length of articles submitted for “**full papers**” and “**technical reports**”.

If you are submitting your article to “**express letters**”, the manuscript should not exceed **5000** words including the title page, abstract, keywords, main text, declarations, references, figure legends and table legends. The sum of the number of figures and tables should be less than or equal to 5.

If you are submitting your article to “**frontier letters**”, the entire manuscript should not exceed **11,000 words**. Each figure or table not exceeding one A4 page equals 500 words. For example, if you have a manuscript with 4,500 words, four figures and one table, the total equivalent number of words is 4,500 + (4+1) \*500 = 7,000.

*Earth, Planets and Space* can only accept manuscripts written in English. Spelling should be US English or British English, but not a mixture.

Figures and tables should be provided as separate files, not embedded in the text file. Each figure should include a single illustration and should fit on a single page in portrait format. Your manuscript must have **Title, Abstract, Keywords, Main Text, Declarations**, **References, Figure Legends and Table Legends.**

**Figures, Tables,** and **additional files** must be prepared separately.

**Keywords**

Three to ten keywords representing the main content of the article.

**Main Text**

**Free headings (The authors can use free headings and subheadings.)**

For citing a reference, please follow “Basic Springer Reference Style”. For example, Miller (1998a), Miller and Smith (2001), Miller et al. (1999) are for papers with one, two and more than two authors. You may also write the citations like this (Miller 1998a, b; Miller and Smith 2001; Miller et al. 1999).

Figures and tables should be uploaded as separate files and should not be embedded in the manuscript. A figure and a table are referenced as “Figure 1” and “Table 1”.

**Declarations**

**The authors need to provide the following declarations.**

**Ethics approval and consent to participate**

Manuscripts reporting studies involving human participants, human data or human tissue must:

* include a statement on ethics approval and consent (even where the need for approval was waived)
* include the name of the ethics committee that approved the study and the committee’s reference number if appropriate

Studies involving animals must include a statement on ethics approval.

See our [editorial policies](https://cognitiveresearchjournal.springeropen.com/submission-guidelines/editorial-policies%22%20%5Ct%20%22_blank)（https://cognitiveresearchjournal.springeropen.com/submission-guidelines/editorial-policies） for more information.

*If your manuscript does not report on or involve the use of any animal or human data or tissue, please state “Not applicable” in this section.*

**Consent for publication**

If your manuscript contains any individual person’s data in any form (including individual details, images or videos), consent for publication must be obtained from that person, or in the case of children, their parent or legal guardian. All presentations of case reports must have consent for publication.

You can use your institutional consent form or our [consent form](http://resource-cms.springer.com/springer-cms/rest/v1/content/6621850/data/v1/Consent-Form-PDF%22%20%5Ct%20%22_blank) (http://resource-cms.springer.com/springer-cms/rest/v1/content/6621850/data/v1/Consent-Form-PDF)　 if you prefer. You should not send the form to us on submission, but we may request to see a copy at any stage (including after publication).

See our [editorial policies](https://cognitiveresearchjournal.springeropen.com/submission-guidelines/editorial-policies%22%20%5Ct%20%22_self) for more information on consent for publication.

*If your manuscript does not contain data from any individual person, please state “Not applicable” in this section.*

**List of abbreviations**

If abbreviations are used in the text they should be defined in the text at first use, and a list of abbreviations should be provided.

**Availability of data and materials**

For all journals, SpringerOpen strongly encourages all datasets on which the conclusions of the manuscript rely to be either deposited in publicly available repositories (where available and appropriate) or presented in the main paper or additional supporting files, in machine-readable format (such as spreadsheets rather than PDFs) whenever possible. Please see the [list of recommended repositories](http://www.springeropen.com/get-published/editorial-policies%22%20%5Cl%20%22availability%2Bof%2Bdata%2Band%2Bmaterials%22%20%5Ct%20%22_self) in our editorial policies.

For all journals, authors must include an “Availability of data and materials” section in their article detailing where the data supporting their findings can be found. If you do not wish to share your data, please state that data will not be shared, and state the reason.

**Competing interests**

All financial and non-financial competing interests must be declared in this section. See our [editorial policies](http://www.springeropen.com/get-published/editorial-policies%22%20%5Cl%20%22competing%2Binterests%22%20%5Ct%20%22_self) for a full explanation of competing interests. If you are unsure whether you or any of your co-authors have a competing interest please contact the editorial office.

**Funding**

All sources of funding for the research reported should be declared. The role of the funding body in the design of the study and collection, analysis, and interpretation of data and in writing the manuscript should be declared.

**Authors' contributions**

The individual contributions of authors to the manuscript should be specified in this section.

**Acknowledgements**

Please acknowledge anyone who contributed towards the article who does not meet the criteria for authorship including anyone who provided professional writing services or materials.

Authors should obtain permission to acknowledge from all those mentioned in the Acknowledgements section.

See our [editorial policies](http://www.springeropen.com/get-published/editorial-policies%22%20%5Cl%20%22authorship%22%20%5Ct%20%22_self) for a full explanation of acknowledgements and authorship criteria.

Group authorship: if you would like the names of the individual members of a collaboration Group to be searchable through their individual PubMed records (where applicable), please ensure that the title of the collaboration Group is included on the title page and in the submission system and also include collaborating author names as the last paragraph of the “Acknowledgements” section. Please add authors in the format First Name, Middle initial(s) (optional), Last Name. You can add institution or country information for each author if you wish, but this should be consistent across all authors.

**Authors' information**

You may choose to use this section to include any relevant information about the author(s) that may aid the reader's interpretation of the article, and understand the standpoint of the author(s). This may include details about the authors' qualifications, current positions they hold at institutions or societies, or any other relevant background information. Please refer to authors using their initials. Note this section should not be used to describe any competing interests.

**Endnotes**

Endnotes should be designated within the text using a superscript lowercase letter and all notes (along with their corresponding letter) should be included in the Endnotes section. Please format this section in a paragraph rather than a list.

**References**

Examples of the *Earth, Planets and Space* reference style as below.

Ogawa, Y., Ichiki, M., Kanda, W., Mishina, M., Asamori, K. (2014) Three-dimensional magnetotelluric imaging of crustal fluids and seismicity around Naruko volcano, NE Japan. Earth Planets Space66:158. doi:10.1186/s40623-014-0158-y

Article within a journal

Smith J, Jones M Jr, Houghton L (1999) Future of health insurance. N Engl J Med 965:325-329

Article by DOI (with page numbers)

Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. J Mol Med 78:74-80. doi:10.1007/s001090000086.

Article by DOI (before issue publication and with page numbers)

Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. J Mol Med. doi:10.1007/s001090000086

Article in electronic journal by DOI (no paginated version)

Slifka MK, Whitton JL (2000) Clinical implications of dysregulated cytokine production. Dig J Mol Med. doi:10.1007/s801090000086

Journal issue with issue editor

Smith J (ed) (1998) Rodent genes. Mod Genomics J 14(6):126-233

Journal issue with no issue editor

Mod Genomics J (1998) Rodent genes. Mod Genomics J 14(6):126-233

Book chapter, or an article within a book

Brown B, Aaron M (2001) The politics of nature. In: Smith J (ed) The rise of modern genomics, 3rd edn. Wiley, New York

Complete book, authored

South J, Blass B (2001) The future of modern genomics. Blackwell, London

Complete book, edited

Smith J, Brown B (eds) (2001) The demise of modern genomics. Blackwell, London

Complete book, also showing a translated edition [Either edition may be listed first.]

Adorno TW (1966) Negative Dialektik. Suhrkamp, Frankfurt. English edition: Adorno TW (1973) Negative Dialectics (trans: Ashton EB). Routledge, London

Chapter in a book in a series without volume titles

Schmidt H (1989) Testing results. In: Hutzinger O (ed) Handbook of environmental chemistry, vol 2E. Springer, Heidelberg, p 111

Chapter in a book in a series with volume titles

Smith SE (1976) Neuromuscular blocking drugs in man. In: Zaimis E (ed) Neuromuscular junction. Handbook of experimental pharmacology, vol 42. Springer, Heidelberg, pp 593-660

OnlineFirst chapter in a series (without a volume designation but with a DOI)

Saito, Yukio, and Hyuga, Hiroyuki. (2007) Rate equation approaches to amplification of enantiomeric excess and chiral symmetry breaking. Topics in Current Chemistry. doi:10.1007/128\_2006\_108.

Proceedings as a book (in a series and subseries)

Zowghi D (1996) A framework for reasoning about requirements in evolution. In: Foo N, Goebel R (eds) PRICAI'96: topics in artificial intelligence. 4th Pacific Rim conference on artificial intelligence, Cairns, August 1996. Lecture notes in computer science (Lecture notes in artificial intelligence), vol 1114. Springer, Heidelberg, p 157

Article within conference proceedings with an editor (without a publisher)

Aaron M (1999) The future of genomics. In: Williams H (ed) Proceedings of the genomic researchers, Boston, 1999

Article within conference proceedings without an editor (without a publisher)

Chung S-T, Morris RL (1978) Isolation and characterization of plasmid deoxyribonucleic acid from Streptomyces fradiae. In: Abstracts of the 3rd international symposium on the genetics of industrial microorganisms, University of Wisconsin, Madison, 4-9 June 1978

Article presented at a conference

Chung S-T, Morris RL (1978) Isolation and characterization of plasmid deoxyribonucleic acid from Streptomyces fradiae. Paper presented at the 3rd international symposium on the genetics of industrial microorganisms, University of Wisconsin, Madison, 4-9 June 1978

Patent

Norman LO (1998) Lightning rods. US Patent 4,379,752, 9 Sept 1998

Dissertation

Trent JW (1975) Experimental acute renal failure. Dissertation, University of California

Book with institutional author

International Anatomical Nomenclature Committee (1966) Nomina anatomica. Excerpta Medica, Amsterdam

In press article

Major M (2007) Recent developments. In: Jones W (ed) Surgery today. Springer, Dordrecht (in press)

Online document

Doe J (1999) Title of subordinate document. In: The dictionary of substances and their effects. Royal Society of Chemistry. Available via DIALOG. http://www.rsc.org/dose/title of subordinate document. Accessed 15 Jan 1999

Online database

Healthwise Knowledgebase (1998) US Pharmacopeia, Rockville. http://www.healthwise.org. Accessed 21 Sept 1998

Supplementary material/private homepage

Doe J (2000) Title of supplementary material. http://www.privatehomepage.com. Accessed 22 Feb 2000

University site

Doe J (1999) Title of preprint. http://www.uni-heidelberg.de/mydata.html. Accessed 25 Dec 1999

FTP site

Doe J (1999) Trivial HTTP, RFC2169. ftp://ftp.isi.edu/in-notes/rfc2169.txt. Accessed 12 Nov 1999

Organization site

ISSN International Centre (2006) The ISSN register. http://www.issn.org. Accessed 20 Feb 2007

**Preparing illustrations and figures**

Illustrations should be provided as separate files, not embedded in the text file. Each figure should include a single illustration and should fit on a single page in portrait format. If a figure consists of separate parts, it is important that a single composite illustration file be submitted which contains all parts of the figure. There is no charge for the use of color figures.

Please read our [figure preparation guidelines](http://www.springeropen.com/authors/figures) for detailed instructions on maximising the quality of your [figures](http://www.springeropen.com/authors/figuretypes).

**Formats**

The following file formats can be accepted:

* PDF (preferred format for diagrams)
* DOCX/DOC (single page only)
* PPTX/PPT (single slide only)
* EPS
* PNG (preferred format for photos or images)
* TIFF
* JPEG
* BMP

**Figure legends**

The legends should be included in the main manuscript text file at the end of the document, rather than being a part of the figure file. For each figure, the following information should be provided: Figure number (in sequence, using Arabic numerals - i.e. Figure 1, 2, 3 etc); short title of figure (maximum 15 words); detailed legend, up to 300 words.

**Please note that it is the responsibility of the author(s) to obtain permission from the copyright holder to reproduce figures or tables that have previously been published elsewhere.**

**Preparing tables**

Each table should be numbered and cited in sequence using Arabic numerals (i.e. Table 1, 2, 3 etc.). Tables should also have a title (above the table) that summarizes the whole table; it should be no longer than 15 words. Detailed legends may then follow, but they should be concise. Tables should always be cited in text in consecutive numerical order.

These will be typeset and displayed in the final published form of the article. Such tables should be formatted using the 'Table object' in a word processing program to ensure that columns of data are kept aligned when the file is sent electronically for review; this will not always be the case if columns are generated by simply using tabs to separate text. Columns and rows of data should be made visibly distinct by ensuring that the borders of each cell display as black lines. Commas should not be used to indicate numerical values. Color and shading may not be used; parts of the table can be highlighted using symbols or bold text, the meaning of which should be explained in a table legend. Tables should not be embedded as figures or spreadsheet files.

Larger datasets or tables too wide for a portrait page can be uploaded separately as additional files. Additional files will not be displayed in the final, laid-out PDF of the article, but a link will be provided to the files as supplied by the author.

Tabular data provided as additional files can be uploaded as an Excel spreadsheet (.xls ) or comma separated values (.csv). As with all files, please use the standard file extensions.

**Preparing additional files**

We encourage authors to provide datasets, tables, movies, or other information as additional files.

Please note: All Additional files **will be published** along with the article. Do not include files such as patient consent forms, certificates of language editing, or revised versions of the main manuscript document with tracked changes. Such files should be sent by email to editorial@earth-planets-space.com, quoting the Manuscript ID number.

Results that would otherwise be indicated as "data not shown" can and should be included as additional files. Since many weblinks and URLs rapidly become broken, *Earth, Planets and Space* requires that supporting data are included as additional files, or deposited in a recognized repository. Please do not link to data on a personal/departmental website. The maximum file size for additional files is 20 MB each, and files will be virus-scanned on submission.

Additional files can be in any format, and will be downloadable from the final published article as supplied by the author. We recommend CSV rather than PDF for tabular data.

Certain supported files formats are recognized and can be displayed to the user in the browser. These include most movie formats (for users with the Quicktime plugin), mini-websites prepared according to our guidelines, chemical structure files (MOL, PDB), geographic data files (KML).

If additional material is provided, please list the following information in a separate section of the manuscript text:

* File name (e.g. Additional file 1)
* File format including the correct file extension for example .pdf, .xls, .txt, .pptx (including name and a URL of an appropriate viewer if format is unusual)
* Title of data
* Description of data

Additional files should be named "Additional file 1" and so on and should be referenced explicitly by file name within the body of the article, e.g. 'An additional movie file shows this in more detail [see Additional file 1]'.

**Additional file formats**

Ideally, file formats for additional files should not be platform-specific, and should be viewable using free or widely available tools. The following are examples of suitable formats.

* Additional documentation
	+ PDF (Adode Acrobat)
* Animations
	+ SWF (Shockwave Flash)
* Movies
	+ MP4 (MPEG 4)
	+ MOV (Quicktime)
* Tabular data
	+ XLS, XLSX (Excel Spreadsheet)
	+ CSV (Comma separated values)

As with figure files, files should be given the standard file extensions.

**Mini-websites**

Small self-contained websites can be submitted as additional files, in such a way that they will be browsable from within the full text HTML version of the article. In order to do this, please follow these instructions:

1. Create a folder containing a starting file called index.html (or index.htm) in the root.
2. Put all files necessary for viewing the mini-website within the folder, or sub-folders.
3. Ensure that all links are relative (ie "images/picture.jpg" rather than "/images/picture.jpg" or "http://yourdomain.net/images/picture.jpg" or "C:\Documents and Settings\username\My Documents\mini-website\images\picture.jpg") and no link is longer than 255 characters.
4. Access the index.html file and browse around the mini-website, to ensure that the most commonly used browsers (Internet Explorer and Firefox) are able to view all parts of the mini-website without problems, it is ideal to check this on a different machine.
5. Compress the folder into a ZIP, check the file size is under 20 MB, ensure that index.html is in the root of the ZIP, and that the file has .zip extension, then submit as an additional file with your article.

For further details, please refer to the following web pages.

<http://www.earth-planets-space.com/authors/instructions/fullpaper>

http://www.earth-planets-space.com/authors/instructions/frontierletter

<http://www.earth-planets-space.com/authors/instructions/letter>

http://www.earth-planets-space.com/authors/instructions/technicalreport