The copernicus.cls User Manual

How to produce LATEX manuscripts for journals published by Copernicus Publications

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1 Introduction

Copernicus Publications provides the Editorial Support Office and/or Publication Production Office for a number of journals. These are:

```
Atmospheric Chemistry and Physics (ACP)
Advances in Geosciences (ADGEO)
Annales Geophysicae (ANGEO)
Atmospheric Measurement Techniques (AMT)
Advances in Radio Science (ARS)
Advances in Science and Research
Astrophysics and Space Sciences Transactions (ASTRA)
Biogeosciences (BG)
Climate of the Past (CP)
Drinking Water Engineering and Science (DWES)
eEarth (eE)
Earth System Science Data (ESSD)
Field Actions Science Reports (FACTS Reports)
Geoscientific Model Development (GMD)
Hydrology and Earth System Sciences (HESS)
Natural Hazards and Earth System Sciences (NHESS)
Nonlinear Processes in Geophysics (NPG)
Ocean Science (OS)
Surveys and Perspectives Integrating Environment and Society
(SAPIENS)
Social Geography (SG)
The Cryosphere (TC)
```

Manuscripts should be written in British English and the authors are responsible for correct spelling and grammar.

In order to maintain a high quality, all manuscripts accepted for publication are typeset in the Copernicus journal style by the Publication Production Office in LATEX.

Manuscripts must be submitted as electronic files via the Electronic Editorial Support Office. Further information on how to prepare figure files, supplemental material, service charges, etc. can be found on the individual journal webpages.

No further support for the obsolete LaTeX version 2.09 is provided. The old syntax will still function, but only with LaTeX $2_{\mathcal{E}}$ in its "compatibility" mode. Since this mode is only meant for processing old documents, that syntax is deprecated today. Here LaTeX means LaTeX $2_{\mathcal{E}}$.

General information on how to write papers in LATEX is provided in the basic manuals by Lamport (1994) and Kopka and Daly (1999).

2 Using the Copernicus LATEX package

Authors who are familiar with LATEX should have no problems using the Copernicus LATEX package. Even if the manuscript has already been written using standard LATEX without the Copernicus class files, it will be easy to adapt it. The most important changes are inserting extra information to the title page and to the header of each page.

The Copernicus LATEX package contains the following files:

- copernicus.cls, copernicus2.cls, and copernicus_discussions.cls
- copernicus.bst
- template.tex
- Copernicus_Latex_Manual.pdf

The template.tex file consists of all important commands which are supported by the copernicus.cls, copernicus2.cls and the copernicus_discussions.cls.

The meaning of the individual elements is explained in the following sections.

2.1 LaTeX Preamble

The Copernicus LATEX package uses currently three different class files which have to be identified in the \documentclass command.

2.1.1 Journal class file copernicus.cls

\documentclass[journal abbreviation] {copernicus}

The following journal abbreviations can be used:

Atmospheric Chemistry and Physics	acp
Advances in Geosciences	adgeo
Annales Geophysicae	angeo
Atmospheric Measurement Techniques	amt
Advances in Radio Science	ars
Astrophysics and Space Sciences Transactions	astra
Biogeosciences	bg
Climate of the Past	ср
eEarth	ee
Geoscientific Model Development	gmd
Hydrology and Earth System Sciences	hess
Natural Hazards and Earth System Sciences	nhess
Nonlinear Processes in Geophysics	npg
Ocean Science	os
Social Geography	sg
The Cryosphere	tc

To prepare a LATEX file in manuscript one-column style the following should be inserted:

\documentclass[journal abbreviation, ms]{copernicus}

The tables will be placed in the back together with the figure captions. The command \printfigures is used to also include the figures in the back.

2.1.2 Journal class file copernicus2.cls

 $\documentclass[journal\ abbreviation]{copernicus2}$

The following journal abbreviations can be used:

Advances in Science and Research

Drinking Water Engineering and Science

Earth System Science Data

Field Actions Science Reports

Surveys and Perspectives Integrating Environment and Society

sapiens

As the journal "SAPIENS" is divided into "Surveys", "Analyses" and "Perspectives" please insert \documentclass[sapiens] {copernicus2} and additionally \bartext{Surveys}, \bartext{Analyses} or \bartext{Perspectives}.

2.1.3 Discussion forum class file copernicus_discussions.cls

To prepare a discussion paper for the discussion forum of a two-stage journal, the following forum abbreviations and commands should be inserted in the square brackets:

Forum abbreviations:

Atmospheric Chemistry and Physics Discussions		
Atmospheric Measurement Techniques Discussions		
Biogeosciences Discussions		
Climate of the Past Discussions	cpd dwesd	
Drinking Water Engineering and Science Discussions		
eEarth Discussions	eed	
Earth System Science Data Discussions		
Geoscientific Model Development Discussions		
Hydrology and Earth System Sciences Discussions		
Ocean Science Discussions	osd	
Social Geography Discussions	sgd	
The Cryosphere Discussions	tcd	

In the discussion forum style, the following differences apply:

- The sections created with \introduction and \conclusions are mandatory because in the online version of the paper there are buttons linking to these sections.
- Authors are strongly encouraged to use the commands \label and \ref when referring to figures, tables, and sections. For citations, the commands \bibitem and \citep (or \citet) should always be used. If done correctly, they will automatically be converted into hypertext links when the online pdf file is produced.
- There is no special numbering of sections, equations, figures and tables in the appendix. Therefore, please do not use the \appendix command.
- It is possible to produce the correct URL of the electronic supplement of your paper with the \supplement{suffix} command. The suffix can be any of the file name extensions that are allowed for an electronic supplement, i.e.: pdf and zip.

2.1.4 Included styles files

The style files amssymb.sty, array.sty, color.sty, fix2col.sty, german.sty, graphicx.sty, ifthen.sty, lineno.sty, multicol.sty, textcomp.sty, times.sty, and url.sty are automatically included, if they are available. The functionality of natbib.sty and authblk.sty is also available in the Copernicus LATEX package. Any additional macros or packages of the authors may be employed with the \usepackage command as usual, provided that they do not change the page layout. However, the style files must be submitted to the Publication Production Office along with the LATEX file.

The usepackage amsmath.sty should not be used, as it does not correspond with other packages used by Copernicus style files!

2.2 Title and authors

As in standard LATEX, information for the title block is entered by means of the commands:

```
\title{...}
\author{...}
```

to which the Copernicus \LaTeX package adds:

```
\left\{ ...\right\}
```

The text of the title should be entered with usual English sentence style: capitalize only the first word and any word that is normally written capitalized.

There are two ways to enter the list of authors depending on the number of affiliations and other notes.

If there is only one affiliation, enter each author's name singly with the **\author** command. Add the affiliation with the **\affil** command after all authors:

```
\author{I. M.~First}
\author{U. R.~Second}
\affil{Institute for Physics}
```

This results in:

I. M. First and U. R. Second

Institute for Physics

If there are two or more affiliations, or if some additional note is required, then superscripts can be given in square brackets, as for example:

```
\author[1]{I. M. First}
\author[2]{U. R. Third}
\author[1,*]{U. R. Second}
\affil[1]{Institute for Physics}
\affil[2]{School of Chemistry}
\affil[*]{now at:}
```

This produces:

I. M. First¹, U. R. Third², and U. R. Second^{1,*}

```
^{1}Institute for Physics ^{2}School of Chemistry
```

*now at:

If the list of authors and affiliations is larger than the allocated space, you can increase the height of the title block with the \titleheight{...} command. The default is \titleheight{7.5cm}.

Some additional pieces of information are necessary:

\runningauthor{...} and \runningtitle{...} are the abbreviated list of authors and a short title for the running heads, respectively. For the \runningauthor{...} the following options are possible:

- The author list consists of two authors: I. M. First and U. R. Second
- The author list consists of more than two authors: I. M. First et al.

\correspondence{...} contains the name and email address of the author to be addressed for correspondence and proofs. Please include the email address in round parentheses, e.g.:

I. M. First (imfirst@xyz.org)

As usual, the actual title is produced with the command \maketitle which must be issued after all the above has been given.

2.3 Abstract

For journal articles, an abstract must be inserted into the abstract environment.

For the copernicus.cls and the copernicus_discussions.cls:

```
\begin{abstract}
TEXT
\end{abstract}
```

For the copernicus2.cls:

```
\abstract{
  TEXT
  \keywords{TEXT}}
```

Keywords are only used for Annales Geophysicae and Surveys and Perspectives Integrating Environment and Society and not necessary for all other journals.

2.4 Introduction

The introduction must be part of every manuscript. To ensure this, the command \introduction is used. If you want to use a slightly different title, you can add it in square brackets, e.g.:

\introduction[Motivation]

2.5 Sectioning

The sectioning commands of the LATEX article class may be used as normal, although their effects are somewhat different.

\section produces a bold heading, flush left, in the normal font size.

\subsection produces a flush left heading in plain type.

\subsubsection is the same as \subsection except for the numbering.

2.6 Conclusions

The conclusions must be part of every manuscript. To ensure this, the command \conclusions is used. If you want to use a slightly different title, you can add it in square brackets, e.g.:

\conclusions[Summary and conclusions]

2.7 Acknowledgements

Acknowledgements are to be included with the acknowledgements environment, as

```
\begin{acknowledgements}
TEXT
\end{acknowledgements}
```

There is also a corresponding acknowledgement environment for a singular acknowledgement.

2.8 References

The references must be put into the thebibliography environment, e.g.:

\begin{thebibliography}{}

```
\bibitem[Jones et al.(1990)]{jones90}
Jones, J. K., Thomas, P. R., and
Peters, R. F.: The best results
of fitting curves, J. Math. Dev.,
12, 1245--1261, 1990.

\bibitem[Jones and Thomas(1991)]{jones91}
Jones, J. K. and Thomas, P. R.:
More results of fitting curves,
J. Math. Dev., 13, 335--339, 1991.

\bibitem[Helliwell(1965)]{helliwell65}
Helliwell, R. A.: Whistlers and
related ionospheric phenomena,
Stanford Univ. Press, California, 1965.
```

\end{thebibliography}

The argument in square brackets (e.g. "[Jones et al.(1990)]") is the citation that will appear in the text when you cite this article, as explained in Sect. 3.6.

Alternatively, if you are using BibTeX, you can use the BibTeX style file copernicus.bst that is provided as part of the Copernicus IATeX package, as explained in Sect. 3.7.

Reference categories, their required elements and examples:

1. Article in Journal

Author(s) (Initials always after last name!)

Article title

Journal title abbreviation

(please use Caltech Library Services:

www.library.caltech.edu/reference/abbreviations)

Volume

Page numbers

Year

Punge, H. J. and Giorgetta, M. A.: Differences between the QBO in the first and in the second half of the ERA-40 reanalysis, Atmos. Chem. Phys., 7, 599–608, 2007.

2. Article in Journal with doi number

Author(s) (Initials always after last name!)

Article title

Journal title abbreviation

Volume

Page numbers or article number

doi number

Year

Felder, M., Poli, P., and Joiner, J.: Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements, J. Geophys. Res., 112, D01303, doi:10.1029/2005JD006769, 2007.

3. Book

Author(s), Editor(s) (Initials always after last name!)

Book title

Edition

Series title and volume (if any)

Editors (if not authors)

Publisher

Location

Total pages (optional) pp.

Year

Singh, O. N. and Fabian, P. (Eds.): Atmospheric Ozone: a Millennium Issue, Copernicus Publications, Katlenburg-Lindau, Germany, 2003.

4. Article in Book

Author(s) (Initials always after last name!) Article title

Book title
Edition (if any)
Editors (if any)
Publisher
Location
Page numbers of article in book
Year

Eagleson, P. S.: Physical composition of the oceans and lakes, in: Dynamic Hydrology, EGU Reprint Series, 2, Copernicus Publications, Katlenburg-Lindau, Germany, 2003.

5. Presented Paper

Author(s) (Initials always after last name!)
Paper title
Name of Meeting/Conference
Location of Meeting/Conference
Date of Meeting/Conference
Abstract number
Year

Keppler, F., Hamilton, J., Braß, M., and Röckmann, T.: An overlooked major source of atmospheric methane: in situ formation in plants, EGU General Assembly, Vienna, Austria, 2–7 April 2006, EGU06-A-08188, 2006.

6. Presented Paper published in Conference Proceedings

Author(s) (Initials always after last name!)
Paper title
Proceedings title
Name of Meeting/Conference
Location of Meeting/Conference
Date of Meeting/Conference
Abstract number or page numbers
Year

Iwata, M., Matsumoto, H., and Kojima, H.: Computer experiments on the plasma wave generation in the vicinity of Earths bow shock, in: Proceedings of the 6th International School/Symposium on Space Plasma Simulation Overview, Garching, Germany, 3–8 September 2001, 4–6, 2001.

7. Report, Map, Thesis, Dissertation

Author(s) (Initials always after last name!) Title Report designator (M.S., Ph.D., etc.) Issuing Organisation/University

```
Location
Total pages (optional) pp.
Year
```

Monger, J. W. H. and Journeay, J. M.: Guide to the geology and tectonic evolution of the southern Coast Mountains, Geol. Surv. of Can., Ottawa, Ont., Open File Rep. 2490, 77 pp., 1994.

Brown, R. J. E.: Permafrost in Canada, Geol. Surv. of Can., Ottawa, Ont., Map 1246A, 1967.

Kronberg, E. A.: Dynamics of the Jovian Magnetotail, Ph.D. thesis, International Max Planck Research School, Universities of Braunschweig and Göttingen, Germany, 133 pp., 2006.

8. Webpages

Title
URL
Access date
Year (if not analog with access date)

Copernicus Publications: http://www.copernicus.org/COPERNICUS/publications, access: 2 July 2007.

If an article is available via the internet, an url address can be inserted before the year, e.g. "available at: http://www.copernicus.org/, 2007.".

3 Extra features

3.1 Figures

Authors must provide electronic versions of all their figures. Vector graphics in the file formats eps and pdf are preferred. For pictures, png and jpg are also possible. Colour illustrations are accepted at no additional charge. Authors are encouraged to make use of this feature. Figures are included into the document with the figure environment. As an example, if a figure exists as an encapsulated PostScript file named sample-figure.eps, then it could be included directly with the commands

```
\begin{figure}[t]
\vspace*{2mm}
\begin{center}
\includegraphics[width=8.3cm]{sample-figure}
\end{center}
\caption{TEXT}
\label{fig:sample-figure}
\end{figure}
```

For this to work, you must have the graphicx package, which is included in recent LATEX versions. If you use pdfLATEX instead of LATEX, you must provide the orbit plot as either sample-figure.pdf or sample-figure.jpg. You should give the graphics file name in the \includegraphics command without an extension.

Figures stretching over both columns can be produced with the starred version, i.e. the figure* environment:

```
\begin{figure*}[t]
 \vspace*{2mm}
 \begin{center}
 \includegraphics[width=12cm]{sample-figure}
 \end{center}
 \caption{TEXT}
 \label{fig:sample-figure}
 \end{figure*}
```

It is possible to scale figures to the full text width or to the width of one column with the \includegraphics command:

```
\includegraphics[width=\textwidth]{orbit}
\includegraphics[width=\columnwidth]{orbit}
```

If a figure is very large and split over two pages, the command \addtocounter{figure}{-1} can be used between the figure environments to ensure that both parts get the same figure number, e.g.:

```
\begin{figure*}[t]
 \vspace*{2mm}
 \begin{center}
 \includegraphics[width=12cm]{sub-figure1}
 \end{center}
 \caption{TEXT}
 \label{fig:sub-figure1}
\end{figure*}
\addtocounter{figure}{-1}
\begin{figure*}[t]
 \vspace*{2mm}
 \begin{center}
 \includegraphics[width=12cm]{sub-figure2}
 \end{center}
 \caption{Continued.}
 \label{fig:sub-figure2}
\end{figure*}
```

If the figures should be labeled with a, b etc., the following should be inserted:

```
\addtocounter{figure}{-1}
\renewcommand{\thefigure}{\arabic{figure}a}
```

3.2 Tables

Tables are created with the tabular environment and included in the text within a table or table* environment. The former is used for a table of single-column width, while the latter is for tables of two-column width. The tables should be horizontally centered. The \caption command comes at the top. For horizontal rules at the top, in the middle and at the bottom of the table, the commands \tophline, \middlehline, and \bottomhline should be used, e.g.:

```
\begin{table}[t]
 \caption{TEXT}
\vskip4mm
\centering
 \begin{tabular}{11}
 \tophline
 COLUMN
            & COLUMN\\
 \middlehline
            & COLUMN\\
 COLUMN
 COLUMN
            & COLUMN\\
 \bottomhline
 \end{tabular}
\end{table}
```

If a table is very large and must be split over two pages, the command \addtocounter{table}{-1} can be used between the table* environments to ensure that both parts get the same table number, e.g.:

```
\addtocounter{table}{-1}
\begin{table}[t]
\caption{Continued.}
\vskip4mm
 \centering
 \begin{tabular}{11}
 \tophline
 COLUMN
            & COLUMN\\
 \middlehline
 COLUMN
            & COLUMN\\
 COLUMN
            & COLUMN\\
 \bottomhline
 \end{tabular}
\end{table}
```

3.3 Alternative texts for one or two columns

Mathematical formulas often have to be fiddled with to fit them into the narrow confines of a single column in two-column format, whereas they will fit with no problem into the wide columns of the one-column layout. This often results in the author having to modify his formulas when

changing between these layouts. The new command **\iftwocol** allows both versions of the text to be included in one document, for automatic selection depending on whether two-column mode is active or not. Its syntax is:

```
\ \left( yes \right) = no
```

where yes is the text that is inserted if two-columns are in effect, and no the text that is otherwise taken. For example, a line break may be necessary for the two-column layout where a space is sufficient for the longer lines of the one-column layout:

```
\iftwocol{\\}{ }
```

This command may be used in other situations, but the main application is this mathematical one.

3.4 Chemical formulas and physical units

Chemical formulas and physical units often contain superscripts and subscripts. It is thus desirable to use the LATEX math mode for them. However, according to the IUPAC recommendations by Mills et al. (1993), they must be typeset using the normal upright font whereas the LATEX math mode produces italics. Therefore the Copernicus LATEX package provides the new commands \chem and \unit that should be used for chemical formulas and physical units:

```
\label{eq:hso_4^-} $$ prints $HSO_4^-$$ \unit{mol\,dm^{-3}} $$ prints $mol\,dm^{-3}$
```

Several arrows are provided by LATEX for chemical reactions:

\rightarrow should be used for normal (one-way) chemical reactions and \rightleftharpoons for equilibria. Note that \leftrightarrow is reserved for resonance structures.

Using the equation and eqnarray environments, LaTeX automatically numbers the equations as (1), (2), (3), and so on. Articles in the geosciences often contain chemical reactions as well as physical equations. For this purpose, the Copernicus class files provide the new environments reaction and rxnarray which create labels including the letter R, i.e. (R1), (R2), (R3), and so on. The numbering of equations and reactions is independent of each other. These new environments can be used in the same way as equation and eqnarray, e.g.:

```
\begin{reaction}
  \chem{0_3} + h\nu \rightarrow \chem{0_2} + \chem{0}
\end{reaction}
```

```
\begin{rxnarray}
\chem{0_3} + h\nu
& \rightarrow
& \chem{0_2} + \chem{0}\\
\chem{0} + \chem{0_2}
& \rightarrow
& \chem{0_3}
\end{rxnarray}
```

3.5 Itemization and numbering

To itemize or enumerate text parts the following commands should be used. Each textpart should start with $\identification \ a-or\ a$ number.

```
\begin{itemize}
\item TEXT
\item TEXT
\item TEXT
\end{itemize}

\begin{enumerate}
\item TEXT
\item TEXT
\item TEXT
\item TEXT
\item TEXT
\end{enumerate}
```

3.6 Literature citations

IATEX command	example result	
<pre>\citet{jones90} \citep{jones90} \citep{jones90, jones93} \citep[p.~32]{jones90} \citep[e.g.,][]{jones90} \citep[e.g.,][p.~32]{jones90} \citeauthor{jones90} \citeyear{jones90}</pre>	Jones et al. (1990) (Jones et al., 1990) (Jones et al., 1990, 1993) (Jones et al., 1990, p. 32) (e.g., Jones et al., 1990) (e.g., Jones et al., 1990, p. 32) Jones et al.	

The Copernicus journals use the author-year system of literature citation, which is not supported by standard LATEX. The Copernicus LATEX package does support it, with and without the BibTEX program. All commands explained here are also listed in the table above.

Since there are two ways of making a citation in the author-year system, either as "Jones et al. (1990)" or as "(Jones et al., 1990)", there are two variants of the original \cite command. Suppose the key for the above reference is jones90, then use

```
\citet{jones90} for Jones et al. (1990) and
```

\citep{jones90} for (Jones et al., 1990).

Optional arguments can be used to add notes inside the citation: a single argument behaves as in standard LATEX, i.e. it produces a note *after* the citation. However, with two optional arguments (non-standard), the first goes *before*, the second *after* it. Two other citation commands are available. \citeauthor{jones90} prints the author and \citeyear{jones90} prints the year of a citation.

For the above examples to function properly, either the bibliography style copernicus.bst must be used with BibTEX, or the thebibliography environment must be formatted accordingly.

If you want to cite a web page (URL), you should use the \url command. This has two advantages. First, no hyphen will be added if a line break appears within a long URL. Second, characters that appear often in an URL but have a special meaning in IATEX like ~ and _ can be used directly within the \url command. For example, \url{http://www.xyz.org/~jones/idx_g.htm} will produce http://www.xyz.org/~jones/idx_g.htm and the direct link from the pdf file to the webpage.

$3.7 \quad \text{BibTeX}$

The Copernicus IATEX package provides the BibTEX style file copernicus.bst. If you use BibTEX, you can enter the following two lines instead of writing the thebibliography environment manually:

Here, bib_file refers to your bibliography file with the suffix bib.

A reference often contains a link to a web page (URL) or a digital object identifier (doi). If you use BibTEX with the copernicus.bst style file, you can enter an URL or DOI in your bib file as e.g.:

```
URL = {http://www.xyz.org/~jones/idx_g.htm}
DOI = {10.1029/2001JD000942}
```

3.8 Times Roman fonts

If the times package with the Times Roman fonts exists in your LATEX installation, it will be used automatically. This package also replaces the sans serif font with Helvetica. If you do not have access to PostScript fonts through LATEX, then you must use the Computer Modern fonts that are standard. Other PostScript fonts should not be selected.

3.9 Italic fonts

Accentuations should be avoided, but if really necessary, the text should be identified with italics, using the command \textit{highlight}\verb.

Latin names of plants, creatures, etc. should be identified in italics, but latin phrases like "in situ", "versus", "a priori", "et al.", "i.e." should stay in an upright font.

3.10 Miscellaneous

The Copernicus macros \permil and \degree produce the permil and the degree sign, respectively, which are not part of standard LaTeX. The command \vec has been changed to produce a bold-face italics symbol that is used for vectors (instead of the arrow over the symbol). To obtain the bold-face upright font for matrices, use the standard LaTeX command \mathbf.

In general, all units are separated from the number using \, to create a small space.

Please remember that it is necessary to add "\ ", i.e. a backslash and a space, if one of these commands is directly followed by a space, e.g. "5 \permil\ or less" prints "5 0/00 or less".

For multiplication the LaTeX command \times should be used. The character * or \times or \times or this purpose.

4 Journal-specific considerations

Considerations for journals with German text

For journals with German text, e.g. Social Geography, two abstracts are required: one in German and one in English. The first abstract is in the main language, the second in the other one. Simply put the two texts into two separate abstract environments. The heading switching (and word division rules) will change automatically.

The package <code>german.sty</code> should exist on your system, and will be loaded automatically if it can be found. This simplifies the typing of German texts, and selects German word divisions, if installed. To activate the German text the following must be inserted in the command

\documentclass[journal abbreviation, german] {copernicus}

All environment names are the same as for English text. Thus the environments acknowledgement and acknowledgements produce the headings Danksagung and Danksagungen, respectively. Similarly for figure and table.

References

- Kopka, H. and Daly, P. W.: A Guide to LATEX—Document Preparation for Beginners and Advanced Users, Addison Wesley Longman, Reading, MA, 3rd edn., 1999.
- Lamport, L.: LATEX—A Document Preparation System, Addison-Wesley, Reading, MA, 2nd edn., 1994.
- Mills, I., Cvitaš, T., Homann, K., Kallay, N., and Kuchitsu, K.: International Union of Pure and Applied Chemistry: Quantities, Units and Symbols in Physical Chemistry, Blackwell Science, Boca Raton, 1993.

5 Reference sheet

- \accepted{date} enters the date that the paper was accepted for publication (to be inserted by the Publication Production Office).
- \affil{address} enters the affiliation that applies to all the previous authors since the last \affil entry.
- $\affil[num]{address}$ enters an affiliation with the explicit superscript num.
- **\author{**name**}** enters the name of one author.
- **\author** [num] { name } enters the name of one author with the explicit affiliation superscript num.
- \begin{acknowledgement}...
 - **\end{acknowledgement}** is a new environment for entering the text of one acknowledgement.
- \begin{acknowledgements}...
 - **\end{acknowledgements}** is a new environment for entering the text of several acknowledgements.
- \begin{reaction}...\end{reaction} is a new environment similar to equation for entering a chemical reaction.
- \begin{rxnarray}...\end{rxnarray} is a new environment similar to eqnarray for entering several chemical reactions.
- **\bottomhline** prints a horizontal line in a table with some space above it. It should be used at the bottom of a table.
- **\chem**{formula} prints a chemical formula using the correct upright font.
- \citeauthor{key} prints the author of a citation as "Jones et al.".
- \citep{key} prints a citation in parenthetical form as "(Jones et al., 1990)".
- \citep[after]{key} prints a citation including a note after the main citation.
- \citep[before] [after] {key} prints a citation including two notes before and after the main citation.
- $\texttt{\citet}{key}$ prints a citation as "Jones et al. (1990)".
- \citeyear{key} prints the year of a citation as "1990".
- \conclusions[title] starts the conclusions section (optionally using the title title).
- \correspondence{name (email)} enters the name and email address of the author to be addressed for correspondence and proofs. Include the email address in round parentheses.

- \degree prints the degree sign.
- \firstpage{page_number} enters the page number of the first page (to be inserted by the Publication Production Office).
- \iftwocol{yes}{no} prints alternative text depending on whether or not the two-column mode is active. This is useful for alternative formatting of math formulas.
- \introduction[title] starts the introduction section (optionally using the title title).
- \middlehline prints a horizontal line in a table with some space above and below it. It can be used in the middle of a table.
- \permil prints the permil sign.
- \printfigures anywhere in the text will ensure that figures are printed out at the end of the manuscript. The captions will always be printed on a separate page. \printfigures is only used for the traditional layout, not for the two-stage journals.
- \pubdiscuss{date} enters the date that the manuscript was published in the discussion stage (to be inserted by the Publication Production Office).
- \published{date} enters the date that the manuscript was published in its final form (to be inserted by the Publication Production Office).
- \received{date} enters the date that the manuscript was submitted (to be inserted by the Publication Production Office).
- \revised{date} enters the date that the revised manuscript was received (to be inserted by the Publication Production Office and omitted if there were no revisions).
- \runningauthor{text} enters the abbreviated list of authors that appears at the top of all pages (except for the first page).
- \runninghead{name} is an obsolete command. Please use both \runningauthor{text} and \runningtitle{short_title}) instead.
- \runningtitle{short_title} enters the short title that appears at the top of all pages (except for the first page).
- \title{title} enters the title of the manuscript.
- **\titleheight{** height} increases the height of the title block (default $= 7.5 \,\mathrm{cm}$).
- **\tophline** prints a horizontal line in a table with some space below it. It should be used at the top of a table.
- \unit{phys_unit} prints a physical unit using the correct upright font.
- \vec{...} prints a bold-face italics symbol used for vectors.