



A demonstration of the L^AT_EX 2_ε class file for the *Quarterly Journal of the Royal Meteorological Society*[†]

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This paper describes the use of the L^AT_EX 2_ε `qjrms4.cls` class file for setting papers for the *Quarterly Journal of the Royal Meteorological Society*.

Key Words: class file; L^AT_EX 2_ε; Q. J. R. Meteorol. Soc.

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1. Introduction

Many authors submitting to research journals now use L^AT_EX 2_ε to prepare their papers. This paper describes the `qjrms4.cls` class file which can be used to convert articles produced with other L^AT_EX 2_ε class files into the correct form for publication in the *Quarterly Journal*.

The `qjrms4.cls` class file preserves much of the standard L^AT_EX 2_ε interface so that any document which was produced using the standard L^AT_EX 2_ε article style can easily be converted to work with the `qjrms4` style. However, the width of text and typesize will vary from that of `article.cls`; therefore, *line breaks will change* and it is likely that displayed mathematics and tabular material will need re-setting.

In the following sections we describe how to lay out your code to use `qjrms4.cls` to reproduce the typographical look of the *Quarterly Journal*. However, this paper is not a guide to using L^AT_EX 2_ε and we would refer you to any of the many books available (see, for example, [Kopka and Daly \(2003\)](#), [Lamport \(1994\)](#) and [Mittelbach and Goossens \(2004\)](#)).

2. The three golden rules

Before we proceed, we would like to stress *three golden rules* that need to be followed to enable the most efficient use of your code at the typesetting stage:

- (i) keep your own macros to an absolute minimum;
- (ii) as T_EX is designed to make sensible spacing decisions by itself, do *not* use explicit horizontal or vertical spacing commands, except in a few accepted (mostly mathematical) situations, such as `\,` before a differential `d`, or `\quad` to separate an equation from its qualifier;
- (iii) follow the *Quarterly Journal* reference style.

3. Getting started

The `qjrms4` class file should run on any standard L^AT_EX 2_ε installation. If any of the fonts, class files or packages it requires are missing from your installation, they can be found on the *T_EX Collection* DVDs or from CTAN.

The *Quarterly Journal* is published using a proprietary font. A reasonable match can be achieved by using the Times fonts and this is achieved by using the `times` option as `\documentclass[times]{qjrms4}`. If for any reason you have a problem using Times you can easily resort to Computer Modern fonts by removing the `times` option.

4. The article header information

The heading for any file using `qjrms4.cls` is shown in Figure 1.

4.1. Remarks

- (i) In `\runningheads`, keep the short title to no more than 50 characters; use '*et al.*' if there are three or more authors.
- (ii) Note the use of `\affil` and `\affilnum` to link names and addresses. The author for correspondence is marked by `\corrauth` and `\corraddr` is used to give that author's address, which will be printed prefaced by 'Correspondence to:'.
- (iii) For submitting a double-spaced manuscript, add `doublespace` as an option to the `documentclass` line.
- (iv) Keywords are separated by semicolons.

5. The body of the article

5.1. Mathematics

`qjrms4.cls` makes the full functionality of $\mathcal{A}\mathcal{M}\mathcal{S}\mathcal{T}\mathcal{E}\mathcal{X}$ available. We encourage the use of the `align`, `gather` and `multline` environments for displayed mathematics.

[†]Please ensure that you use the most up to date class file, available from the QJRMS Home Page at

[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1477-870X](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1477-870X)

```

\documentclass[times]{qjrms4}
%\documentclass[times,doublespace]{qjrms4}%For paper submission

\begin{document}

\runningheads{<Initials and Surnames>}{<Short title>}

\title{<Initial cap, lower case>}

\author{<An Author,\affil{a}
Someone Else\affil{b}\corrauth\ and Perhaps Another\affil{a}>}

\address{<\affilnum{a}First author's address
(in this example it is the same as the third author)\
\affilnum{b}Second author's address>}

\corraddr{<Corresponding author's address (the second author in
this example)>. E-mail: <corresponding author's email address>}

\begin{abstract}
<Text>
\end{abstract}

\keywords{<List up to eight key words>}

\maketitle

\section{Introduction}
.
.
.

```

Figure 1. Example header text.

5.2. Figures and tables

qjrms4.cls uses the `graphicx` package for handling figures.

Figures are called in as follows:

```

\begin{figure}
\centering
\includegraphics{<figure name>}
\caption{<Figure caption>}
\end{figure}

```

Recall that the

```
\begin{figure*}... \end{figure*}
```

commands are needed for a figure spanning both columns.

For further details on how to size figures, etc, with the `graphicx` package see, for example, [Kopka and Daly \(2003\)](#) or [Mittelbach and Goossens \(2004\)](#). If figures are available in an acceptable format (for example, .eps, .ps) they will be used but a printed version should always be provided.

The standard coding for a table is shown in Figure 2.

5.3. Cross-referencing

The use of the \LaTeX cross-reference system for figures, tables, equations, etc, is encouraged (using `\ref{<name>}` and `\label{<name>}`).

5.4. Acknowledgements

An Acknowledgements section is started with `\ack` or `\acks` for *Acknowledgement* or *Acknowledgements*, respectively. It must be placed just before the References (or before the appendix when applicable).

```

\begin{table}
\caption{<Table caption>}
\centering
\begin{tabular}{<table alignment>}
\toprule
<column headings>\
\midrule
<table entries
(separated by & as usual)>\
<table entries>\
.
.
.\
\bottomrule
\end{tabular}
\end{table}

```

Figure 2. Example table layout.

5.5. Bibliography

Please note that the file `wileyqj.bst` is available from the same download page for those authors using $\BIB\TeX$.

Otherwise, the normal commands for producing the reference list are:

```

\begin{thebibliography}{99}
\item <Reference details>
.
.
.

```

```
\item <Reference details>
\end{thebibliography}
```

5.6. Double spacing

If you need to double space your document for submission please use the `doublespace` option as shown in the sample layout in Figure 1.

6. Support for `qjrms4.cls`

We offer on-line support to participating authors. Please contact us via e-mail at qjauth-cls@wiley.co.uk.

We would welcome any feedback, positive or otherwise, on your experiences of using `qjrms4.cls`.

7. Copyright statement

Please be aware that the use of this L^AT_EX 2_ε class file is governed by the following conditions.

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Acknowledgement

This class file was developed by Sunrise Setting Ltd, Paignton, Devon, UK. Website:

www.sunrise-setting.co.uk

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