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Abstract   The text for the first abstract goes here. This should be in English, no longer than 200 words, and should not include references.

1   Section name

All articles must include an abstract, author ORCIDs and author contributions (in the preamble of this tex file), a data and code availability statement, and a list of references.

Section names are at the discretion of the authors. A simple structure for an article would include an Introduction, Methods and Data, Results, Discussion, and Conclusions, but authors are encouraged to choose a structure that best presents their work.

1.1   Bibliographic citations

In the text of an article, citations may either be in-line, as in the case of citing **?**, or in parentheses (e.g., **?**), as appropriate. All citations in the text must be listed in the references section, and all listed references must be cited at least once in the text.

1.2   Headings

1.2.1   Subsubsection

Three levels of section headings is the maximum[1] - no subsubsubsections, please! Note that footnotes are permitted, as in the previous sentence, though we encourage authors to really think about whether a footnote is necessary or if the information it contains could be included in the main text.

1.3   Figures and Tables

Figures should be labeled, captioned, and referenced within the text (e.g., Fig. 1 and Figs 1a, b, 2c). When an article is accepted, separate full-resolution files must be uploaded for each figure. While Figure 1 is a one-column figure, Figure 2 is a full-width figure.
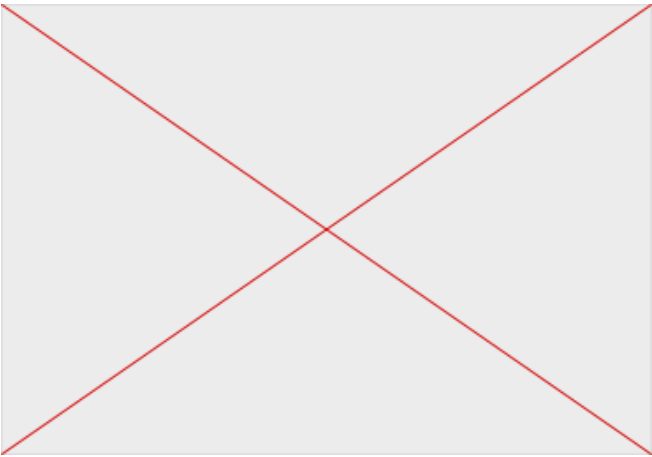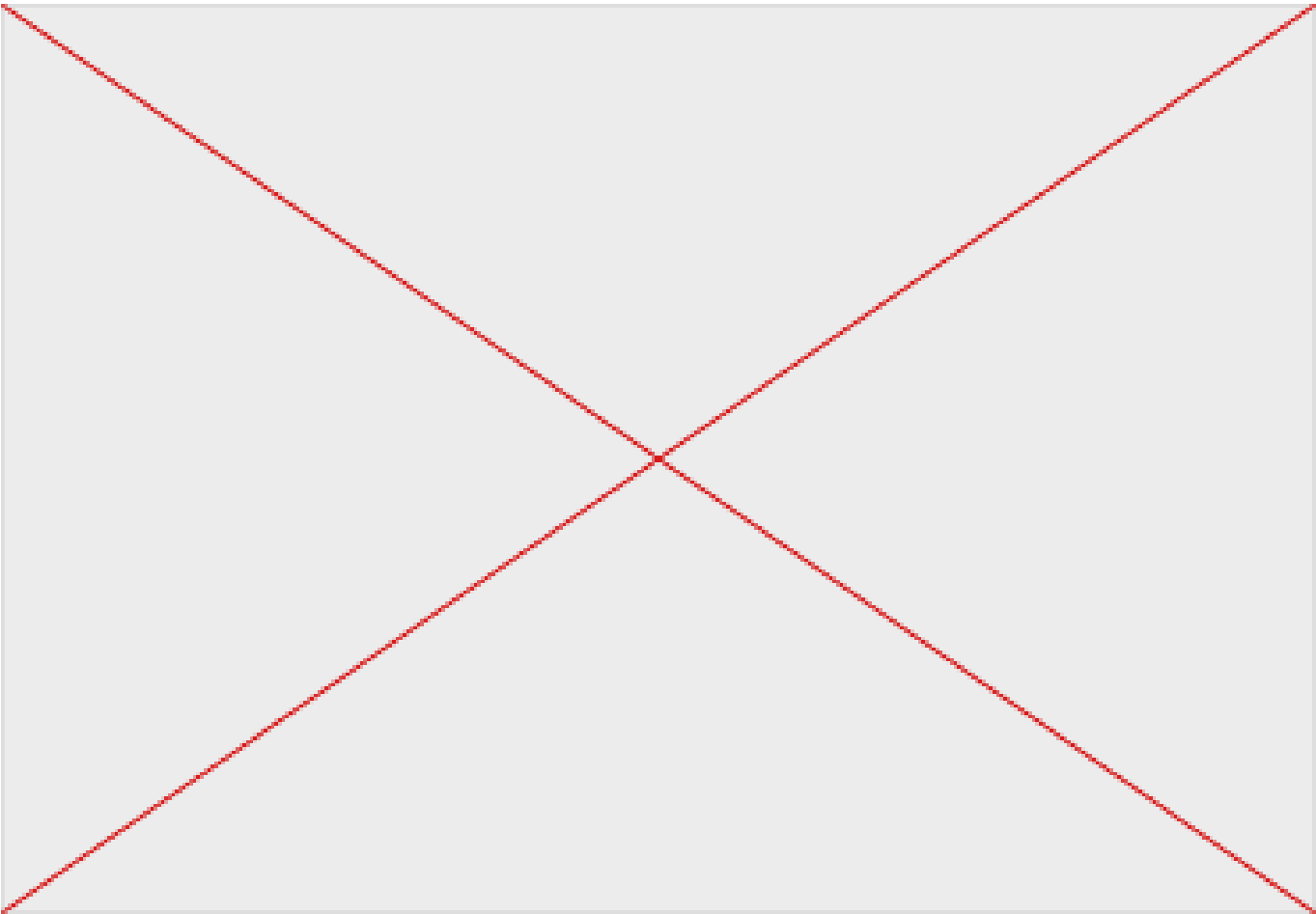
1

Figure 1   This is an example of a figure caption.

Figure 2   This is a caption on wider figure.

Event ID	Location	Estimated magnitude	A random number
1	Here	2.5	17
2	There	4.1	1350

Table 1   Caption

Tables can also be included, with captions.

Tab. 1 (use Tabs if several tables) is an example of a relatively simple table. We strongly encourage authors to

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[1]Seriously, the maximum

32 put tables in Supplementary Materials, and/or into a csv or similar format, upload them to a data repository such as

33 zenodo, and reference them in the section on data availability instead of including them in the article itself.

34 ## 1.4 Equations and maths

Equations can be included in the text, and should be labeled so they can be referenced. One example is Equation 1:

$$G = \frac{1}{2}(2\cos z) + (1/2)(2\cos z + j\sin z - j\sin z) + (1/2)(\cos z + j\sin z + \cos z - j\sin z) - (1/2)(e^{jz} + e^{-jz}) \tag{1}$$

35 Please type vectors and matrices in bold: $\mathbf{X} = [x_1, x_2, \ldots, x_n]^T$.

36 ## 1.5 Code

37 Code examples should be concise and descriptive. They should introduce core functionality or specific syntax and

38 should be included using the `lstlisting` environment. Note that lines longer than 45 characters will be broken

39 when using the prepress option. Extended examples or use cases should be uploaded separately. Individual words

40 of code can be written inline, for example:

41 To improve stability of the inversion, the `Model` object accepts the `strict` keyword, which disables piecewise

42 linear approximation of the target function (Listing 1).

Listing 1 Example use of `Model`

```
#2 4 6 8 0 2 4 6 8 0 2 4 6 8 0 2 4 6 8 0 2 4|
import mymodule as mm

model = mm.Model(strict=True)
mdls = model.perturb()

for mdl in mdls:
    var = mdl.get_variance()
```

51 # Acknowledgements

52 Thank all relevant parties and acknowledge funding sources, if any.

53 # Data and code availability

54 Authors should direct readers to an open access repositories where data and code used in the study are made avail-

55 able. Zenodo, figshare, and Dryad are examples of repositories where authors can archive their data and code. Ci-

56 tations for datasets and codes should be included in the references, including citations for any seismic networks

57 from which data was used. Github is not considered a persistent repository, and we encourage authors to archive a

58 snapshot of any github-hosted code on zenodo.

59 # Competing interests

60 Declare any competing interests, financial or otherwise, pertaining to any of the authors. If there are none, state that

61 the authors have no competing interests.