

JEEG guideline for display items

Experiences show display items (figures, illustrations, tables, *etc.*) have the most impression on the reviewers' decision; also, many readers look only at your display items to decide either reading the main text of your manuscript or not. **Therefore, in every aspect, all display items MUST have a high-quality and professional appearance; otherwise, we can NOT let the manuscript undergo a review process.** Please ensure all display items follow the JEEG guideline for display items.

a) JEEG categorizes all display items into two main categories: figures and tables

- Figures include but are not limited to, *e.g.*, images like the magnetic field, maps, schematics, *etc.*, or line art such as graphs, data plots, *etc.*
- All figures and tables must have an individual caption.
- A figure can be a combination of several figures presented side-by-side or stacked.; it is technically called a multipanel figure.
- Figure file formats of PostScript (PS), Encapsulated PostScript (.EPS), Tagged Image File Format (.TIFF), Portable Document Format (.PDF) are now unacceptable. **Only use JPEG or Portable Network Graphics (.PNG) formats (.JPEG are the best).**

b) Figure size: consider an imaginary frame that surrounded a figure; the following MUST be its final size

- Width: can NOT be wider than 88 mm (3.54 in) or 181 mm (7.16 in) for figures that are supposed to fit in a single column or a page wide, respectively.
- Height: A figure **PLUS** its caption can NOT be higher than 216 mm (8.5 in).
- The maximum size of a figure **PLUS** its caption MUST be 181 x 216 mm (7.16 x 8.5 in); therefore, when creating a figure, you MUST consider the space needed for its caption.
- For the reviewer-friendly manuscript, figures, tables, and captions MUST be embedded in the main text. They should be placed at the top of the page, closest to the first mention in the text.
- For the reviewer-friendly manuscript, a figure and its caption MUST be on the same page.

c) Resolution (DPI) of figures:

- containing images (*e.g.*, the magnetic field, maps, schematics, *etc.*) MUST be at least 300 dots per inch (DPI).

- with line art (*e.g.*, graphs, data plots, *etc.*) MUST be at least 600 DPI (1200 DPI is preferred).
- If a multipanel figure comprises a combination of images and art line panels, the figure should meet the stricter guidelines. Thus, the resolution of all panels MUST be at least 600 DPI (1200 DPI is preferred).

d) Font size and font-weight:

- All labels (*e.g.*, axes' numbers and labels, bars' numbers and labels, map legends, *etc.*) MUST be in **the same eight-point font with normal (regular) font-weight** (sans serif font such as Arial or Helvetica is preferred).
- Lettering within figures (*e.g.*, contour labels, annotations, locations' names, *etc.*) MUST be legible, not too large or too small in **the same font with normal (regular) font-weight** (six-point sans serif fonts such as Arial or Helvetica are preferred).
- For multipanel figures, each panel MUST be labeled alphabetically with this format: a letter following with a parenthesis (no space between them) in **the same eight-point font with boldface font-weight**.
 - For example, **a) b)**

e) The first letter of axes and bars labels MUST be capitalized.

f) All units (*e.g.*, units of axes and bars labels, legends units, *etc.*) MUST be declared and denoted in parentheses and consistent with the main text.

g) The figure's style, font, size, and format MUST be consistent with those in other figures.

h) For multipanel figures:

- Each panel MUST have the same properties (*e.g.*, resolution, font size, and font-weight) that an individual display item has.
- Each panel must be labeled alphabetically with this format: a letter following with a parenthesis (no space between them) in the **same eight-point font with boldface font-weight**.
 - For example, **a) b)**
- Label consecutively left to right and top to bottom.
- Each panel label MUST be placed in the upper-left corner of the vertical axes of the corresponding panel or upper-left corner of an image.

- A panel label can NOT be inside (within) a figure (*e.g.*, plot, image, map, *etc.*).
- A multipanel figure MUST be displayed/submitted as one file (*e.g.*, each panel cannot be displayed/submitted as an individual file).
- If a multipanel figure comprises a combination of images and art line panels, the figure should meet the stricter guidelines. Thus, its resolution MUST be at least 600 DPI (1200 DPI is preferred).
- Each panel MUST be addressed in the figure's caption based on this format: first mention the panel label in parentheses (*e.g.*, (a), (b)), then its corresponding explanation.
- Each panel MUST be referred to in the main text.

i) Maps

- All maps MUST contain 1) latitude and longitude coordinates' axes and 2) scale bars.
- Latitude and longitude coordinates MUST be in one of these formats: 1) Degrees Minutes Seconds (D° M' S"), 2) Decimal Minutes (D° M.M'), or Decimal Degrees (D.D°).
- An indication of the hemisphere MUST follow latitude/Longitude. N and S indicate the Northern and Southern Hemispheres (North and South of the equator,) respectively. W and E indicate an area in the West and East of the Prime Meridian, respectively.
- If using a reference coordinate system other than the World Geodetic System 1984 (WGS84), it MUST be mentioned in the figure caption.
- Essential items MUST be labeled and MUST define in the legend.

j) Figure/Table Caption

- All figures and tables MUST have appropriate and sufficient captions in **12-point Times New Roman font**.
- Captions MUST be self-explaining and make readers understand the significance of the figures/tables at first glance without referring to the related text in the manuscript.
- The captions MUST be brief and, simultaneously, provide a comprehensive explanation to help interpret the meaning of the underlying results.
- All abbreviations in captions MUST be spelled out, even if they appear in the main text or abbreviations list.
- Captions MUST be written in a complete sentence, starting with conventional capitalization.

- Captions **MUST** be placed under the figure and are left justified; however, for tables, captions **MUST** be placed above the table and align to the left.
- Captions **MUST** start with the word Figure/Table followed by figure/table number and end with a period, all **boldface**, followed by the explanations with a normal (regular) font-weight.
 - **Table 4.** Comparison of estimated and known target parameters.
- For multipanel figures, each panel **MUST** be addressed in the figure's caption based on this format: first mention the panel label in parentheses (e.g., (a), (b)), then its corresponding explanation.
 - **Figure 5.** The synthetic data (a) with random and (b) coherent noise.
- The data sourced from other publications **MUST** be cited within captions as appropriate.

h) Referencing figures/tables within the main text

- When referencing a table within the main text, **MUST** use the word "Table" followed by the table(s) number(s).
 - ... Table 5 and 6 show ...
 - Table 3 shows ...
- When referencing a figure or more than one figure, **MUST** use the abbreviations "Fig." or "Figs." followed by the figure(s) number(s), respectively.
 - ... model in Fig. 12 shows ...
 - ... models in Figs. 12 and 13 show ...,
- For referencing a panel or more than one panel in multipanel figures, **MUST** use the abbreviation "Fig." or "Figs." followed by the figure(s) number(s) and each panel label in parentheses, respectively.
 - ... Fig. 1(a) shows ...
 - ... Figs. 1(b) and 1(c) ...
 - ... Figs. 2(d) and 3(d) ...
 - ... Figs. 4(a)-(d) ... (exception)
- Always at the beginning of a sentence, **MUST** spell out the word Figure or Figures followed by the figure(s) number(s) for referencing a figure or more than one figure, respectively.
 - Figure 4(d) shows ...
 - Figures 2-5 show ...

In the end, all in all, do all figures in the manuscript have a high-quality and professional appearance? If the answer is no, unfortunately, we cannot even let the manuscript undergo a reviewing process.