

Guidelines for Preparing a Contribution to the IGS Technical Report 2024

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1 Introduction

The annual Technical Report of the International GNSS Service (IGS, see Johnston et al, 2017) has been published successfully every year since its publication was resumed in 2011. The published IGS Technical Reports are available online at the IGS website. We appreciate your interest and valuable contributions to the report again. The next report, IGS Technical Report 2024, is scheduled to be published at the beginning of 2025.

In agreement with the previous IGS Technical Reports, the issue for 2024 *must* contain contributions from the main components of the IGS, namely global analysis centers (ultra rapid, rapid and final products), the global data centers, the working groups, and the pilot projects. Contributions from associated analysis centers, regional data centers, and other IGS related organizations are also welcome. Table 1 shows an overview of expected submissions.

The format of manuscript is the same as that for the IGS Technical Report 2023. Please pay close attention to the following general points:

1. The deadline for submissions is **January 31, 2025**. This is a hard deadline. Late contributions will not be considered for the publication.
2. Missing contributions from key components of the IGS (see “required = yes” in Tab. 1) will be indicated in the report.
3. A submission is expected to have 4 to 6 pages length.
4. The possible document formats are L^AT_EX , MS Word, OpenOffice (LibreOffice) Writer, or plain ASCII text.

Table 1: Expected contributions to the IGS Technical Report 2024

Introduction, IGS general	required
Governing Board	yes
Central Bureau	yes
Additional introductory/general reports	no
Analysis Centers	required
Analysis Center Coordinator	yes
Center for Orbit Determination in Europe	yes
European Space Operations Center	yes
GeoForschungsZentrum	yes
Groupe de Recherche de Géodésie Spatiale	yes
JAXA/GSI	yes
Jet Propulsion Laboratory	yes
Massachusetts Institute of Technology	yes
National Geodetic Survey	yes
Natural Resources Canada	yes
Scripps Institution of Oceanography	yes
U.S. Naval Observatory	yes
Wuhan University	yes
Additional (associated) analysis center related reports	no
Data Centers	required
Infrastructure Committee	yes
Crustal Dynamics Data Information System	yes
GSSC Global Data Center	yes
Institut Géographique National	yes
Korean Astronomy and Space Science Institute	yes
Scripps Institution of Oceanography	yes
Wuhan University	yes
Additional data center related reports	no
Working Groups, Pilot Projects	required
Antenna	yes
Bias and Calibration	yes
Clock Products	yes
GNSS Monitoring	yes
Ionosphere	yes
Multi-GNSS	yes
PPP-AR	yes
Real-Time	yes
Reference Frame	yes
RINEX	yes
Troposphere	yes
Additional working group/pilot project related reports	no
Other Contributions	required
Other contributions are welcome	no

5. All figures must be provided as separate file either in **PostScript format** (`eps`, `ps`) or in **Portable Document Format** (`pdf`) . It is important that these are vector but **not bitmap** graphics.
6. Submissions should be mailed to `igs_tr@aiub.unibe.ch`

The final publication will be prepared in \LaTeX .

2 Document in \LaTeX

The source file of this article (`guideline.tex`) should be used as example and template for a \LaTeX submission. All standard \LaTeX commands and packages may be used. Please do not change

- the document class
`\documentclass[11pt,onecolumn,oneside,notitlepage,a4paper]{article}`
- the citation and bibliography style
`\usepackage[round]{natbib}`
`\bibliographystyle{plainnat}`
- the page size
`\setlength{\textheight}{582pt}`, etc.
- appearance of header, footer, headlines, captions, etc.

Following these rules will help us to reformat all submissions to a consistent layout for the final publication.

2.1 Additional Packages and Commands

You may include additional *standard* \LaTeX packages like `amsmath` or `graphicx` (see preamble of `guideline.tex`). Definitions of new commands must be included in the submitted `tex` file. Please avoid non-standard features as far as possible.

2.2 Bibliographic References

Citations to bibliographic references should be in the author–year style. Please use the `natbib` package together with the `plainnat` bibliography style. The layout of the referenced items should look like in the example at the end of this document.

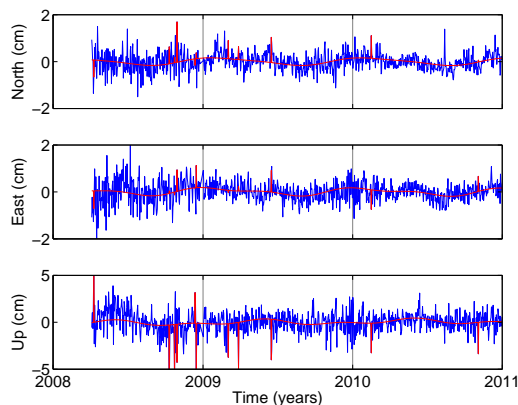


Figure 1: An example.

The command `\citet{...}` creates in-text references like Dach et al. (2009). Parenthetical citations are obtained with the `\citep` command, e.g. (Dach et al., 2009).

Please include either the full `bb1` file in your submission or—even better—include the list of references at the end of your article, as

```
\begin{thebibliography}{2}
  \bibitem[Dach et al.(2009) ...]{Dach09}
  ...
\end{thebibliography}
```

2.3 Figures and Tables

All figures must **be provided in separate files** either in **PostScript format** (`eps`, `ps`) or in **Portable Document Format** (`pdf`) – no bitmap please. The figures will appear in full color in the electronic version of the Technical Reports. Keep in mind, however, that the Technical Report may also be printed in gray scale. Please make sure that your figures are still readable when printed in gray scale.

Captions should be placed below figures but above tables (see Fig. 1 and Tab. 1).

3 Documents in Other Formats (MS Word, LibreOffice, plain text)

You may write your contribution to the IGS Technical Reports in Microsoft Word, OpenOffice (LibreOffice) Writer, or in plain ASCII text. Keep in mind, however, that the final publication will be prepared in \LaTeX . As a consequence, your article will be reformatted to fit to the final layout.

Please take the following points into account

- the printable area of the final document will be 20.5×15 cm,
- fontsize is 11 pt,
- text is set in one column,
- do not use automatic referencing features of your word processor.

Following these rules will help us to reformat all submissions to a consistent layout for the final publication.

3.1 Bibliographic References

Citations to bibliographic references should be in the author–year style. In-text references should look like Dach et al. (2009), parenthetical references like (Dach et al., 2009).

Please include the full list of references at the end of your article. Provide all necessary bibliographic information in the order and layout as given in the examples at the end of these guidelines.

3.2 Figures and Tables

All figures must be provided in separate files either in PostScript format (**eps**, **ps**) or in Portable Document Format (**pdf**), even if they are already included in your document. The figures will appear in full color in the electronic version of the Technical Reports. Keep in mind, however, that the Technical Report may also be printed in gray scale. Please make sure that your figures are still readable when printed in gray scale.

Captions should be placed below figures but above tables (see Fig. 1 and Tab. 1).

References

- Dach, R., E. Brockmann, S. Schaer, G. Beutler, M. Meindl, L. Prange, H. Bock, A. Jäggi, and L. Ostini. GNSS Processing at CODE: Status Report. *Journal of Geodesy*, 83(3-4): 353–366, 2009.
- Johnston G, A. Riddell, G. Hausler. The International GNSS Service. In: Teunissen P, Montenbruck O (eds) *Springer Handbook of Global Navigation Satellite Systems*, Cham, Switzerland: Springer International Publishing, pp. 967–982, 2017, DOI: 10.1007/978-3-319-42928-1,