

ANSWERS TO EDITOR on Essd-2023-131 – Lavinia Tunini et al.

Editor text is in black, whereas our answers are in blue.

Decision

Dear Lavinia Tunini, Andrea Magrin, Giuliana Rossi, and David Zuliani

Many thanks for the revision of the manuscript and the adjustment of the license. I am glad that you agreed to remove the share-alike (SA) clause without any problems. Thanks also for the registration of the Zenodo record (as communicated via email).

Thank you for the interest in our work. We have modified the manuscript as you suggested.

I am accepting the manuscript in its actual state after making sure that the manuscript adopted to the new situation. Precisely, I am asking you to

1. Modify the last sentence of the abstract to: “The time series and velocity field dataset documented here is available on Zenodo (<https://doi.org/10.5281/zenodo.8055800>, Tunini et al., 2024).”

Ok, done.

2. Update the respective citation in the “References” section to “Tunini, L., Magrin, A., Rossi, G., and Zuliani, D.: 2022.OGS.GPS.solution: GNSS time series and velocities about a slow convergent margin processed on HPC clusters: products and robustness evaluation, <https://doi.org/10.5281/ZENODO.8055800>, 2024.”

Ok, done. We insert the citation in the references list.

3. Modify the “Data Availability” section to something like
The geodetic time series and velocity dataset [described in this article](https://doi.org/10.5281/zenodo.8055800) is accessible on Zenodo (~~DOI~~ <https://doi.org/10.5281/zenodo.8055800>, Tunini et al., 2024) ~~or from the following link~~ https://frednet.crs.ogs.it/frednet_data/Projects/2022.OGS.GPS.solution/ (Tunini et al., 2022). The products are distributed under ~~a~~ [the](https://creativecommons.org/licenses/by-sa/4.0/) Creative Common licence CC BY-SA 4.0. The time series for each GNSS station, covering the 2002-2022 time interval (the last day processed is 2022, 30th June), are supplied in both international and Eurasia reference frames (ITRF14 and ETRF14). Besides the GNSS time series plots, GAMIT/GLOBK post-formatted files and ASCII formatted (Solution INdependent Exchange - SINEX) daily files are provided. Velocity values are also provided in ITRF14 and ETRF reference frames, and made available through tables and ASCII-formatted SINEX files. An annual update of the estimated velocities is planned, while daily updated time series will be available ~~from the webpage via~~ <https://frednet.crs.ogs.it/DOI/https://doi.org/10.6092/frednet> (OGS, 2016) by clicking on the “solutions” link. Further related information regarding the present ~~paper~~ [article](#) (i.e., command files, information on jumps and discontinuities affecting the time series due to earthquakes or equipment changes, station information, etc.) is provided ~~at the same link of the dataset~~ [\(please add citation\)](#).

4. Please add the following reference to the “References” section:
OGS-Istituto Nazionale Di Oceanografia E Geofisica Sperimentale: Friuli Regional Deformation Network Data Center (1.0), <https://doi.org/10.6092/FREDNET>, 2016.

Commentato [KE1]: Do you mean the data Tunini et al., (2024) or OGS (2016)? I would suggest to add the correct citation at the end of the sentence.

Commentato [MOU2R1]: OGS (2016). Thank you for the suggestion. Now the sentence is clearer.

Thank you for the suggestions. Done.

We also modified coherently the links throughout the entire manuscript, as can be seen in the track-changes version of the manuscript.

Furthermore, we substituted a reference that was “under review” with another recent one on the same topic (Guidarelli et al., 2022 instead of Priolo et al., under review).

Finally, for completeness, we added a table with details on the geodetic networks cited in the manuscript (Appendix B).

We hope that the manuscript is currently ready to be accepted.

Best regards

Lavinia Tunini and the co-authors