

A European database of resources on coastal storm impacts

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Reply to Editor and Reviewers

Dear Editor and Referees,

We have improved the resolution and quality of the figures and made some other minor corrections to the manuscript. Please, find below the changes introduced in the final version of the manuscript.

We would like to thank you for your time and comprehensive review. We would also like to deeply thank the Editor for handling the manuscript.

Best regards,

Clara Armaroli on behalf of all co-authors

Figures and captions

Figures from 01 to 07 have been improved in terms of resolution. Figure 06 has been slightly modified. Specifically, panel c) of figure 06 has been substituted with a new high-resolution photo showing the same concept of the previous version. It has been decided to substitute panel c) because the previous photo was only available at low resolution. The references of the four photos have been included in the caption.

The new caption is as follows:

“Figure 6. Examples of the level of confidence associated with the flood depth: (a) and (b) high level of confidence (clear spatial references in the pictures), (c) medium level of confidence (some reference in the picture) and (d) low level of confidence (no clear reference in the picture). References of the images: (a) <https://www.sealsanctuary.co.uk/pressrel09102014hsls.html> (last access January 02, 2025); (b) <http://infoterre.brgm.fr/rapports/RP-58261-FR.pdf> (Pedreros et al., 2010; last access January 02, 2025); (c) <https://www.diaridegirona.cat/baix-emporda/2020/01/21/temporal-esborrales-platges-l-48749485.html> (last access January 02, 2025); (d) https://www.youtube.com/watch?v=oQ5ME3plmmo&list=UUUP8KKIjgWf6JTHg-NNKN9g&ab_channel=CostaBravaVibes (last access January 02, 2025)”.

The reference to Pedreros et al. (2010) has been added in the reference list, specifically:

Pedreros, R., Garcin, M., Krien, Y, Monfort Climent, D., Mugica, J., and François, B.: Tempête Xynthia: compte rendu de mission préliminaire. Rapport BRGM/RP-58261-FR, 45 p., 31 Figs., 1 Ann, <https://infoterre.brgm.fr/rapports/RP-58261-FR.pdf> (last access January 02, 2025), 2010.

Other minor corrections

The link to the ECFAS DB in the Zenodo repository has been added in the Abstract. Specifically, the last sentence now includes the following statement: “The ECFAS database is available at <https://doi.org/10.5281/zenodo.6538416>”.

In line 83 the reference to the DB has been added: “The database presented in this paper (Souto-Ceccon et al., 2021; <https://doi.org/10.5281/zenodo.6538416>) was developed in the framework of...”

In line 244 there was an error in the percentages in brackets. It has been corrected as follows: “Furthermore, the percentage of “Technical reports” is higher in France (8.3%) than in Portugal (2.8%), possibly because...”

The reference to the HANZE v2.1 DB of Paprotny et al. (2024) has been updated as follows:

Paprotny, D., Terefenko, P., and Śledziowski, J.: HANZE v2.1: an improved database of flood impacts in Europe from 1870 to 2020, *Earth Syst. Sci. Data*, 16, 5145–5170, <https://doi.org/10.5194/essd-16-5145-2024>, 2024b.

The reference to Duo et al. (2023) has been updated as follows:

Duo, E., Montes, J., Le Gal, M., Fernández-Montblanc, T., Ciavola, P., and Armaroli, C.: Validated probabilistic approach to estimate flood direct impacts on the population and assets on European coastlines, *Nat. Hazards Earth Syst. Sci.*, 25, 13–39, <https://doi.org/10.5194/nhess-25-13-2025>, 2025.

We have updated the links to the Zenodo datasets cited in the reference list together with the information on the last access.

The link to the ECFAS Database in Zenodo has been modified to include the link to all versions so that a user can always access the latest version of the DB.

We have also corrected few typos and other minor grammar errors.