

Interactive comment on “First steps towards an All-European Indoor Radon Map” by Javier Elío et al.

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We would like to thank you for your positive comments.

The effort to map indoor radon at the European level started in 2006, following a workshop in which a number of participants agreed to send the JRC a set of statistics estimated from the indoor radon data that they already had collected. For the European map, it was just not possible to impose a common statistical design *a priori*, so it necessarily became a data-driven approach *a posteriori*. The only requirement was that “statistics should be calculated using annual averaged measurements made on ground floor of residential houses” (Tollefsen et al., 2014). This is of course a source of uncertainty in our analysis, as pointed out by Dubois et al. (2010). We have included

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a reference to the latter paper, where readers can analyse the challenges of mapping indoor radon at the European scale.

References:

Dubois, G., Bossew, P., Tollefsen, T. and De Cort, M.: First steps towards a European atlas of natural radiation: Status of the European indoor radon map, *J. Environ. Radioact.*, 101(10), 786–798, doi:10.1016/j.jenvrad.2010.03.007, 2010.

Tollefsen, T., Cinelli, G., Bossew, P., Gruber, V. and De Cort, M.: From the European indoor radon map towards an atlas of natural radiation, *Radiat. Prot. Dosimetry*, 162(1–2), 129–134, doi:10.1093/rpd/ncu244, 2014.

Interactive comment on *Nat. Hazards Earth Syst. Sci. Discuss.*, <https://doi.org/10.5194/nhess-2019-102>, 2019.

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