

Author Response to Editorial Comments

We thank the Handling Topic Editor, Dr. Luke Western, for his careful reading of the revised manuscript and for the clear and constructive technical corrections. We have implemented all the requested revisions, as detailed below.

1. Please write affiliation 2, ASNR, in full

Done. Affiliation 2 is now written in full as *Autorité de Sûreté Nucléaire et de Radioprotection*.

2. Throughout: Please ensure that citations contain only surnames, e.g., Leadbetter, S.J. et al., 2020 should be Leadbetter et al., 2020

All in-text citations have been revised to remove first name initials. Citations now contain only surnames.

3. Line 20: Please change LE et al., 2021 to Le et al., 2021

Corrected. “LE” has been changed to “Le” in line 20.

4. Throughout: Please ensure all units are in exponential format, i.e., m/s should be, e.g., m s^{-1} . Please also remove the points between units in Table 1, i.e., m s^{-1} instead of m.s^{-1} .

All units have been revised to exponential format throughout the text and tables. Points between units have been replaced by proper spacing, following the journal style.

5. Table 2: Please write as e.g., 1×10^{-1} rather than 1e-1 (remove scientific format)

Scientific notation has been replaced by exponential notation in Table 2, as requested.

6. Figure 9: please ensure that the legend does not overlap in the lower panel. As the legend is the same for both panels, a single legend in one figure should suffice.

The legend in the bottom graph has been removed to avoid any overlap and ensure clarity.

7. For all figures: Please ensure that figures with multiple panels are labelled as a), b), etc.

All figures with multiple panels now include panel labels ((a), (b), etc.).

8. Figure 8: It’s not clear what the different colours mean here. Please explain in the figure caption.

The caption of Figure 8 has been expanded to explain the meaning of each color, and to indicate that the color scheme is consistent with that used in other figures for clarity and comparison.

9. Table 3 and lines 280–295: There are a mixture of decimal points and commas here. I assume that these should be decimal points throughout?

Confirmed and corrected. All numerical values now consistently use decimal points.

10. Code and data availability section: Please write the repositories as full citations and include in the bibliography, rather than only the doi.

Full bibliographic entries for both the code and data repositories have been added to the .bib file and cited accordingly in the section. The DOIs have also been retained in the text to facilitate direct access.

11. Line 341: Please write INTERNATIONAL ATOMIC ENERGY AGENCY in lower font

Corrected. The agency name is now in sentence case.

12. Line 372: Please change to “2nd edition”

Corrected.

13. Roustant et al. in the bibliography needs a doi

A DOI has been added to the Roustant et al. reference.

14. Swallow et al. in the bibliography needs a journal and doi

Swallow et al. (2017) corresponds to an arXiv preprint. Since it has not been published in a peer-reviewed journal, we have retained it as a preprint and formatted the entry using the @misc type, including the arXiv identifier and URL.

15. Tombette et al. in the bibliography needs a journal and doi

This reference corresponds to a poster presented at the 4th European IRPA Congress and was not published in a journal nor assigned a DOI. We have reformatted it using the @misc type, indicating the presentation type and the conference as publisher.

We thank the reviewer again for their helpful and constructive feedback, which has contributed to improving the overall clarity and consistency of the manuscript.