

Interactive comment on “Radiological data on building stones from a Spanish region: Castilla y León” by A. Pereira et al.

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We appreciate the comments on our paper by referee 2, and reply as follows:

comment 1 - We believe that capillary absorption data from papers published on sedimentary rocks from Salamanca (e.g. Villamayor sandstone) does not help to further understand radon exhalation in our paper. This is due to the fact that the sedimentary rocks analyzed all show very low Rn exhalation. However, the references suggested fit adequately in the literature review we carry out in the text and were accordingly included.

Comment 2 - Indeed linearity is not well defined in all cases, in spite that is the most common trend. The most important observation, however, is that a significant mathematical correlation exists between the isotopic activities, which supports the conclusion that the content of radioactive accessory minerals is their main control. We have changed the text accordingly: The rocks analyzed show a significant correlation between isotopic activities, and define in some cases an approximately linear trend. This suggests that the radionuclides could share a common mineralogy.

Comment 3 - We agree with the referee's comments, and this explanation was already included in the text. We think it is worthwhile to reinforce this explanation linked to the conclusions of our paper.

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