

Interactive comment on “Radon monitoring as a possible indicator of tectonic events” by V. I. Outkin et al.

Anonymous Referee #6

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The paper deals with a thorny problem: the use of radon monitoring as a possible indicator of tectonic events. Many researcher are struggling with this issue, which is often considered controversial and problematic. In this sense, I have appreciated Authors' effort to cope with this topic, but some methodological issues are not really convincing.

Focusing on the Paragraph entitled “Supportive evidence of Remote Sensing” (Par. 3), the Authors mentioned the use of Remote Sensing (RS) methodologies to detect pre-earthquake deformation, e.g. exploiting active (SAR) and passive (Landsat, ASTER) satellite sensors. Despite its promising title, this Paragraph results inadequate. First of all, the description of the state-of-the-art of such approache (and, consequently, the related bibliography) is very poor. In addition, the Authors stated that “Implementation

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of multispectral and hyperspectral remote sensing data based on gamma ray spectrometry, digital elevation models and synthetic aperture radar imagery in lithological and structural mapping dates back to the launch of the first Landsat system”, but first satellites of Landsat program were equipped with a four-channel multispectral scanner (MSS), so that is fundamentally improper to connect them with SAR or gamma ray spectrometry.

Then, the Authors didn't explain if they have really used RS data or information to corroborate their analysis and observations, or if they have simply described of the potentiality of RS exploitation. Consequently, the final paragraph does not provide any relevant conclusion related to the use of RS techniques and data in this field of research.

For the above mentioned reasons, it is essential that Authors completely review this part, in order to provide useful information and analysis, capable to efficiently support their arguments. Otherwise, this part of the article risks to become insignificant, making weaker the entire paper.

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