

## ***Interactive comment on “30 years of European Commission Radioactivity Environmental Monitoring Database (REMdb) – an open door to boost environmental radioactivity research” by Marco Sangiorgi et al.***

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Dear reviewer, thanks for the time you dedicated for reviewing this paper and all your good suggestions.

We reviewed the paragraph about "natural background enhanced by nuclear accidents". → As a consequence of anthropogenic activities, such as Chernobyl and Fukushima (e.g. Imanaka et al., 2015), detonations of nuclear weapons (e.g. Gabrieli et al., 2011), nuclear waste handling and disposal, medical procedures (e.g. diagnostic

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X-rays, radiation therapy) (e.g. Alkhorayef et al., 2018) and mining (e.g. Carvalho et al., 2014), the background radioactivity level is increased.

About ordering alphabetically countries in Fig. 3, we think that we would lose information about the year a country joined REMdb. The other figures follow the same order for coherence.

In the meantime, we have released a new dataset including measurements from 2007 to 2011; we added it to the new paper draft. Please have a look at it.

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2018-160/essd-2018-160-AC3-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2018-160>, 2019.

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