

## ***Interactive comment on “Spatial datasets of radionuclide contamination in the Ukrainian Chernobyl Exclusion Zone” by Valery Kashparov et al.***

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Received and published: 18 October 2017

Author response: \*We welcome these positive comments and suggestions for improvement which are dealt with in the following way: General comments I suggest rearranging the abstract a bit. After the first sentence please place rationale of the paper and the value of the described datasets which are currently in the end. Then you may describe types of data available. It would be also great if in the abstract the authors could have the finalizing sentence elaborating, for whom and for which purposes the presented datasets could be valuable. It would be great if in the final section on data use could be extended to accommodate vision of the authors on how and who could use the data.

C1

\*Abstract rearranged and improved with a section on rationale of the paper, value of the described datasets and for which purposes the data could be valuable. Finally, there is obviously some technical error in the section titles numbering starting from L157. Yes you are right, numbering was incorrect. \*Section 2 starting at L157 renumbered. I also suggest if the journal format allows that to include sections with the particular data sets description as subsections of Section 2 (Data). \*Section 2 renumbered. In response to ‘Specific comments’. L14 remove “to be made publicly available” – we feel that this comment should stay. L16 Introduce the “CEZ” acronym - CEZ acronym written out in full. L17 . . .in soil - corrected to in soil L20 . . .that would provide. . . - corrected to that would provide L42 . . .to a smaller extent. . . – we prefer ‘to a lesser extent’ and have not changed the text. L42-43 . . .are a consequence. . . text updated to are a consequence L56 . . .mobilization. . . (?) – we prefer the English version so have not changed the text L79 . . .radionuclide deposition. . . text updated accordingly L153-156 remove numbers, they are redundant as you use color as well. - unchanged but text updated to say ‘The above numbers are used in Table 1 and subsequently to identify the data sets’. L157 and below see general comment on section numbering. - Section numbering indeed incorrect so checked and updated. L168 Please provide the name of the device producer to keep it consistent with the descriptions of other devices. - device name added L171 . . . to what is now officially adopted as SOU. . . What is SOU, by the way? - SOU fully explained L226 Maybe here you need to explain whether this was done in accordance with the USSR standards abbreviated as GOSTs. I am not sure that many people remember this immediately. - GOST explained L232 skip “countries” - ‘countries’ deleted L261 . . .resulting solution. . . – we prefer resultant so text has not been changed L265 Additional 12 samples.. or . . .An additional set of 12 samples. . . - changed to ‘An additional set of 12 samples’ L272 Which “further site”? - additional information has been added to identify this additional site L277 . . .large amount of uranium. . . - changed to ‘large amount of uranium’ L280 . . .were predominantly deposited at the distance of 2-5 km from the. . . - text updated to say ‘were predominantly deposited at the distance of 2-5 km from the’ L316

C2

An additional set of 294 . . . - Text changed to 'An additional set of 294' L382 could you maybe present these formulas using the special formula-building plug-in? the will be much nicer then. - equations updated using online formula-building tool L413 and further. I presume this is Ivankov municipal district which you are talking about. Please use this term consistently across the text. - references to Ivankov consistently changed to Ivankov district and explained in text L414 . . .The geographic coordinates. . . Figure 3. I think it is important to show the readers where Ivankov municipal district is located relative to ChNPP and maybe Kyiv. Please introduce a small map in the upper left corner of the figure showing the location of the district within NE Ukraine. - Map figures updated with addition of 'Ivankov district' or addition of 'Chernobyl exclusion zone'. L431 Do you mean lids? Were they 10 cm in diameter or 10 cm thick? – No, we don't mean lids. Measurements were carried out in a lead shielded area – text has been altered to hopefully clarify this to the reader.

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2017-71>, 2017.