

Interactive comment on “The effects of topography and soil properties on radiocesium concentrations in forest soils in Fukushima, Japan” by Misa Yasumiishi et al.

Elena Korobova (Referee)

korobova@geokhi.ru

Received and published: 17 December 2020

The article is interesting as an attempt to carry out spatial estimate of Cs-137 distribution after the Fukushima accident in relation to topography of the contaminated basin. However, the applied sampling scheme does not allow to obtain results adequate to the selected scale of topographical resolution (1 and 10 meters). Therefore I would like to recommend softening the presented conclusions.

Another comment concerns rather low values of the soil bulk density (ca 0.4-0.5 g/kg dry weight) and calculation of Cs-137 contamination density (Bq/m² per soil layer) using Bq/kg DW data by recalculation on the basis of Bq/kg data after withdrawal of

Printer-friendly version

Discussion paper



rock fragments and roots from the soil core samples. The last operation may increase the real contamination density at the sampling point.

Please, see some other comments and recommendations in the attached file.

Please also note the supplement to this comment:

<https://esurf.copernicus.org/preprints/esurf-2020-72/esurf-2020-72-RC3-supplement.pdf>

Interactive comment on Earth Surf. Dynam. Discuss., <https://doi.org/10.5194/esurf-2020-72>, 2020.

Printer-friendly version

Discussion paper

