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<sup>137</sup>Cs activity in Sweden after the Chernobyl Nuclear Power Plant accident in relation to quaternary geology and land use

Martin Tondel, Göran Granath, Robert Wålinder

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## **ACCEPTED MANUSCRIPT**

<sup>137</sup>Cs activity in Sweden after the Chernobyl Nuclear Power Plant accident in relation to 1 2 Quaternary geology and land use 3 Martin Tondel<sup>1,2</sup>, Göran Granath<sup>3</sup>, Robert Wålinder<sup>1,2</sup> 4 5 <sup>1</sup> Occupational and Environmental Medicine, Department of Medical Sciences, Uppsala 6 University, Uppsala, Sweden 7 <sup>2</sup> Occupational and Environmental Medicine, Uppsala University Hospital, Uppsala, Sweden 8 <sup>3</sup> Ariadne Exploration AB, Uppsala, Sweden 9 10 Keywords: GIS; geology; caesium-137; soil; aerial measurements; land use 11 12 Highlights: 13 Interpolating maps on <sup>137</sup>Cs fallout, geology and land use generate new information 14 Soil type and land use influenced weathering of <sup>137</sup>Cs after the Chernobyl accident 15 Using pre-existing maps can be considered when predicting activity on the ground 16 Geology could be important to consider when estimating external radiation doses to 17 18 man 19 20 Address for correspondence: Martin Tondel, Occupational and Environmental Medicine, 21 Department of Medical Sciences, Uppsala University, SE-751 85 Uppsala, Sweden 22

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