

BIOGRAPHY

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Title and name

Dr Aaldrik Tiktak

Nationality

Dutch

Panel

Plant Protection Products and Their Residues (PPR)

Education

MSc Physical Geography, 1978, University of Amsterdam

PhD Modelling Non-Point Source Pollutants in Soil, 1999, University of Amsterdam

Scientific and risk assessment experience

- Mathematical models of pesticide fate in soil and groundwater including GIS-based approaches
 - Uncertainty analysis
 - Tiered approaches and scenario-selection procedures for exposure of plant protection products in various environmental compartments
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Main scientific publications

Main areas: pesticide fate modelling; spatially-distributed models; uncertainty analysis; model evaluation.

Tiktak A, Hendriks RFA, Boesten JJTI, 2012. Simulation of movement of pesticides towards drains with a preferential flow version of PEARL. Pest Manag Sci (68):290-302

Vanderborgh J, Tiktak A, Boesten JJTI, Vereecken H, 2012. Effect of pesticide fate parameters and their uncertainty on the selection of 'worst-case' scenarios of pesticide leaching to groundwater. Pest Manag Sci (67):294-306

Heuvelink GBM, Burgers SLGE, Tiktak A, van den Berg F, 2010. Uncertainty and stochastic sensitivity analysis of the GeoPEARL pesticide leaching model. Geoderma (155):186-192

Leterme B, Vanclooster M, van der Linden AMA, Tiktak A, Rounsevell MDA, 2007. Including spatial variability in Monte Carlo simulations of pesticide leaching. Environ Sci Technol (41):7444-7450.

Tiktak A, Boesten JJTI, van der Linden AMA, Vanclooster M, 2006. Mapping Ground Water Vulnerability to Pesticide Leaching with a Process-Based Metamodel of EuroPEARL. J Environ Qual (35):1213-1226.

Tiktak A, de Nie DS, Piñeros Garcet JD, Jones A, Vanclooster M, 2004. Assessment of the pesticide leaching risk at the Pan-European level. The EuroPEARL approach. *J Hydrol* (289):222-238

Vanclooster M, Boesten JJT, Tiktak A, Jarvis NJ, Kroes JG, Munoz-Carpena R, Clothier BE, Green SR, 2004, On the use of unsaturated flow and transport models in nutrient and pesticide management. In *Unsaturated-zone modelling: progress, challenges and applications*, Wageningen UR Frontis Series (6):331-361.

Tiktak, A, De Nie DS, van der Linden AMA, Kruijne R, 2002. Modelling the leaching and drainage of pesticides in the Netherlands: the GeoPEARL model. *Agronomie* (22):373–387

Tiktak A, 2000. Application of pesticide leaching models to the Vredepeel dataset. II Pesticide fate. *Agr Water Manage* (44):119-134

Tiktak A, Leijnse A, Vissenberg H, 1999. Uncertainty in a regional-scale assessment of cadmium accumulation in the Netherlands. *J Environ Qual* (28):461-470.

Tiktak A, Alkemade JRM, van Grinsven JJM, Makaske GB, 1998. Modelling cadmium accumulation at a regional scale in the Netherlands. *Nutr Cycl Agroecosys* (50):209-222

Tiktak A, van der Linden AMA, van der Pas LJ, 1998. Application of the pesticide transport assessment model to a field study in a humic sandy soil in Vredepeel, the Netherlands. *Pestic Sci* (52):321–336
