

BIOGRAPHY

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Title and name

Dr W. van der Werf!

Nationality

Netherlands.

Panel

Plant Health.

Education

BSc Crop protection, 1980, Wageningen University

MSc Crop protection, 1983, Wageningen University

PhD Agricultural and Environmental Sciences, 1988, Wageningen University

Scientific and risk assessment experience

Areas of expertise:

Spatial ecology & quantitative epidemiology

Agro-ecology, functional biodiversity & biological control

Ecological modelling & data analysis.

Main scientific publications

Kehlenbeck H, Robinet C, van der Werf W, Kriticos D, Reynaud P, Baker R (2012) Modelling and mapping spread in pest risk analysis: a generic approach. EPPO Bulletin, 42: 74–80. doi: 10.1111/j.1365-2338.2012.02550.x.

Keesman KJ, Graves AR, van der Werf W, Burgess PJ, Palma J, Dupraz C, van Keulen H (2011) A system identification approach for developing and parameterising an agroforestry system model under constrained availability of data. Environmental Modelling & Software 26 (2011) 1540-1553. doi:10.1016/j.envsoft.2011.07.020.

van der Werf W, Hemerik L, Vlak J, Zwart MP (2011) Heterogeneous Host Susceptibility Enhances Prevalence of Mixed-Genotype Micro-Parasite Infections. PLoS Computational Biology Volume 7 (6) e1002097 – 30 June 2011.

Chalak M, Hemerik L, van der Werf W, Ruijs A, van Ierland EC (2010) On the risk of extinction of a wild plant species through spillover of a biological control agent: analysis of an ecosystem compartment model. Ecological Modelling 221, 1934-1943. doi:10.1016/j.ecolmodel.2010.05.003

Skelsey P, Kessel GJT, Rossing WAH, van der Werf W. Invasion of *Phytophthora infestans* at the Landscape Level; How Do Spatial Scale And Weather Modulate The Consequences Of Spatial Heterogeneity In Host Resistance? Phytopathology 100: 1146-1161. doi:10.1094/PHYTO-06-09-0148

Soliman T, Mourits MCM, Oude Lansink AGJM, van der Werf W (2010) Economic Impact Assessment in Pest Risk Analysis. *Crop Protection* 29: 517-524. doi:10.1016/j.cropro.2009.12.014

Zwart MP, van der Werf W, Georgievska L, Van Oers MM, Vlak JM, Cory JS (2010) Mixed genotype infections of *Autographa californica* multicapsid nucleopolyhedrovirus in *Trichoplusia ni*; speed of action and persistence of a recombinant in serial passage. *Biological Control* 52, 77-83. doi:10.1016/j.biocontrol.2009.10.002

Bianchi FJJA, Schellhorn NA, van der Werf W (2009) Predicting the time to colonization of the parasitoid *Diadegma semiclausum*: the importance of the shape of spatial dispersal kernels for biological control. *Biological Control* 50: 267-274. doi:10.1016/j.biocontrol.2009.04.014

Skelsey P, Kessel GJT, Holtslag AAM, Moene AF, van der Werf W (2009a) Regional Spore Dispersal as a Factor in Disease Risk Warnings for Potato Late Blight: a Proof of Concept. *Agricultural & Forest Meteorology* 149, 419-430. doi: 10.1016/j.agrformet.2008.09.005

Skelsey P, Kessel GJT, Rossing WAH, van der Werf W (2009b) Parameterization and Validation of a Spatio-Temporal Model of the Late Blight Pathosystem. *Phytopathology* 99, 290-300. doi:10.1094/PHYTO-99-3-0290

Skelsey P, Rossing WAH, Kessel GJT, van der Werf W (2009c) Scenario Approach for Assessing the Utility of Dispersal Information in Decision Support for Aerially Spread Plant Pathogens, Applied to *Phytophthora infestans*. *Phytopathology* 99: 887-895. doi:10.1094/PHYTO-99-7-0887

Surkov IV, Oude Lansink AGJM, van der Werf W (2009) The optimal amount and allocation of sampling effort for plant health inspection. *European Review of Agricultural Economics* 36: 295-320. doi:10.1093/erae/jbp030

Zwart MP, Hemerik L, Cory JS, de Visser JAGM, Bianchi FJJA, Vlak JM, van Oers MM, Hoekstra RF, van der Werf W (2009) An experimental test of the independent action hypothesis in virus-insect pathosystems. *Proceedings of the Royal Society Series B* 276, 2233-2242. doi:10.1098/rspb.2009.0064

Landis DA, Gardiner MM, van der Werf W, Swinton SM (2008) Increasing Corn for Biofuel Production Reduces Biocontrol Services in Agricultural Landscapes. *Proceedings of the National Academy of Sciences* 105(51), 20552-20557; doi: 10.1073/pnas.0804951106

Surkov IV, Oude Lansink AGJM, van der Werf W, van Kooten O (2008) A model of optimal import phytosanitary inspection policy under budget constraint. *Agricultural Economics* 38: 363-373.

Surkov IV, van der Werf W, van Kooten O, Oude Lansink AGJM (2008) Modeling the rejection probability in plant imports. *Phytopathology* 98: 728-735.
