**SOPHIE O. VANWAMBEKE**

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**Research themes**

Land cover and epidemiology of vector-borne diseases — Modelling of vector-borne and zoonotic diseases at the landscape scale — Socio-economic and environmental determinants of land use change in rural areas — Multi-level statistical analyses, niche modeling, spatial modelling.

**Education**

2005: PhD in Science (geography), UCL: “Impacts of land use change on mosquito-borne diseases in northern Thailand”. Supervisor: Prof. E.F. Lambin. Jury: Prof. D. Peeters (UCL), Prof. B. van Wesemael (UCL), Prof. M. Coosemans (ITM-Antwerp), Prof. D. J. Rogers (Oxford U.).

2000: Licence en géographie, UCL. Thesis: “Land cover changes in the Zambezi valley: the Lusitu area. Analysis by remotely sensed data and aerial photography”. Grade: Grande distinction.

1998: Candidature en géographie, Facultés Universitaires Notre-Dame de la Paix. Grade: Distinction.

**Employment history**

*From October 2015:* professor, UCL, School of Geography, and Georges Lemaître centre for Earth and Climate research.

*2007-2015:* assistant professor (chargée de cours), UCL, Dept. of Geography.

*2007:* adjunct professor, Facultés Universitaires Notre-Dame de la Paix, Namur, Dept. of Geography.

*2005-2007*: research assistant for the EDEN project, UCL, Dept. of Geography: Emerging Diseases in a Changing European Environment (Horizontal Integration Team: Environmental Change). EDEN is a consortium of 48 institutions from Europe and Africa.

2000-2005: research assistant for the RISKMODEL project, UCL, Dept. of Geography: Predicting the risks of mosquito-borne diseases from land use change. In collaboration with: Royal Inst. for the Tropics (Amsterdam), Manchester U., U. Sheffield, Natural History Museum (London), Chiang Mai U.

**Funding**

*2017-2020:* Fonds de Recherche Fondamentale Stratégique, Walloon Institute for Sustainable Development: Mapping the transition toward sustainable livestock production systems. Coordinator: M. Gilbert, ULB.

*2013-2016:* Fonds de la Recherche Fondamentale Collective: Mapping People and Livestock, Coordinator: M. Gilbert, ULB.

*2013:* Belgian Federal Public Planning Service, Science Policy, STEREOII programme, BUSHTICK: Changing farming, bush encroachment, and tick-borne disease risk in Southern Norway, Coordinator: S. Vanwambeke. Partners: S. Jore, Norwegian Veterinary Inst., B. Johansen, NORUT.

*2012-2016*: UCL, Fonds spéciaux de recherche, Spatial distribution of 3 zoonotic diseases in Belgium: epidemiological and environmental factors. PI: S. Vanwambeke, A. Robert.

*2010:* FP7 Cooperation, Health, Collaborative project (Appel: FP7-HEALTH-2010-single-stage; Work programme topics: HEALTH.2010.2.3.3-1) EDENext Biology and control of vector-borne infections in Europe. Coordinator: Dr. R. Lancelot (CIRAD) 46 partners. (S. Vanwambeke: deputy lead, modelling).

*2010:* Belgian Federal Public Planning Service, Science Policy, STEREOII programme, TICKRISK: Assessing ecological suitability for the spread of *Rhipicephalus* (*Boophilus*) *microplus* in West Africa. Coordinator: S. Vanwambeke. Partners: M. Madder (ITM), A. Estrada-Peña (U. Zaragoza).

*2008*: Belgian Federal Public Planning Service, Science Policy, STEREOII programme, MULTITICK Multiscale and multisensory modelling of the spatial distribution of tick-borne diseases. Sole PI: S. Vanwambeke.

*2008*: UCL, Fonds spéciaux de recherche, multiresolution study of environmental risk factors for tick-borne diseases. Sole PI: S. Vanwambeke.

**Grants and scholarships**

*2008*: “Bourse d’excellence Wallonie-Bruxelles”, French-speaking Community Government, for a stay at the Asia-Pacific Institute Tropical Medicine and Infectious Diseases (U. Hawai’i).

*2008*: Fulbright Commission for Educational Exchange between the United States of America, Belgium, and Luxembourg, scholar grant for a stay at the Asia-Pacific Institute Tropical Medicine and Infectious Diseases (U. Hawai’i).

*2008*: grant from the National Science Foundation-IGERT program/U. Hawai’i for research at Asia-Pacific Institute Tropical Medicine and Infectious Diseases (U. Hawai’i) (not used).

*2008*: Fonds National de la Recherche Scientifique, travel grant for a research the Asia-Pacific Institute Tropical Medicine and Infectious Diseases (U. Hawai’i).

*2008*: French-speaking Community Government in the frame of bilateral agreements with the Latvian government. Travel grant for research in Riga.

*2007*: Fonds National de la Recherche Scientifique, travel grant for a research stay at the Environmental Change Institute, Oxford U.

**Peer-reviewed publications, seminars and outreach activities**

Scopus: 34 documents, 609 citations, h-index: 14 (30/3/2017)

An up to date list of peer-reviewed publications can be found via Google Scholar ([link](https://scholar.google.be/citations?hl=en&user=ebM0bB8AAAAJ)) and Research Gate ([link](https://www.researchgate.net/profile/Sophie_Vanwambeke)). Information on other activities is available on request.

**Experience abroad**

*November 2011:* Field work, Bénin: research on ticks of cattle.

*September 2008-December 2008*: Visiting Fulbright scholar at the Asia-Pacific Institute Tropical Medicine and Infectious Diseases (U. Hawai’i).

*September 2007-December 2007:* Academic visitor at the Environmental Change Institute, Oxford U. Centre for the Environment.

*May 2007:* Field work in Latvia on land use change and tick-borne encephalitis.

*May 2006:* Research at Oxford U.

*March 2003:* Field work in Thailand: land tenure survey, land cover validation, RISKMODEL workshop.

*March-April 2002:* Field work in Thailand: socio-economic household survey, land cover validation.

*May-June 2001:* Field work in Thailand: socio-economic household survey, data collection.

**Professional services and memberships**

*Since 2016:* FRIA selection committee.

*2016:* ARES scholarship application selection committee for the Masters in Methods in Public Health.

*Since September 2015:* President of School of Geography.

*Since September 2015:* Member of National Committee of Geography.

*Since 2010:* UCL representative at CECAFOC.

*2011, 2017:* Fulbright selection committee.

Fulbright Alumni Association.

Ecohealth International Association.

*Since 2013:* representative of the Faculty of Sciences to the committee of the Hoover Chair in economic and social ethics.

*2010-2015:* secrétaire du Jury Géographie Bac 2, Bac 3, Master 1 et Master 2.

Editorial board member, BELGEO.

*Since 2008:* Steering committee member of BeWise association (Belgian Women in Science).

*Since 2008:* Review Editor for Ecohealth Journal.

*2007-2010:* Member of the editorial advisory board of Ecohealth.

Reviewer for: Ecohealth; WHO Dengue Bulletin; Agriculture, Ecosystem and Environment; Télédétection; International Journal of Health Geographics; Cybergéo; Acta Tropica, Ticks and tick-borne diseases, International Journal of Environmental Research and Public Health, Medical and Veterinary Entomolgy, Journal of Medical Entomology, Parasites & Vectors, PNAS, PLoS Neglected Tropical Diseases.

Evaluator for VLIR, ANR, European Commission.

*2000-2007*: representative of temporary scientific staff in the Commission of Geography and in the Department Counsel.

**Teaching and student supervision experience**

*Supervisor of PhD students:*

R. Rousseau (Transitional environments and tick-borne diseases in Ireland; started 2015).

C. Chaiban (Mapping People and Livestock; started 2015).

P. Bourguignon (Mapping People and Livestock; 2013-2015).

M. de Keukeleire (Spatial heterogeneity of the tick-host-pathogen system: spatial risk factors, including land management, of tick-borne diseases distribution in Belgium; Started 2013).

C. Zeimes (Modelling hantavirus distribution and the environment; Started 2011, Defended 2015)

M. Joiret (Multiscale statistical modelling of tick-borne diseases. 2009-2010).

S. Li (Spatial epidemiology and multi-scale modelling of tick-borne diseases. Defended 2014)

*Member of thesis committee*: E. Dion (UCL, Geography. D. Yewhalaw Gebre (UCL, Medicine and Ghent U.), V. Zunz (UCL, Physics), R. Vanegas (FUNDP, Geography), J. Rodriguez Llanes (UCL, Medicine), I. Rautu (UCL, Demography).

*Thesis Jury:* S. Neerinckx (2010, U. Antwerp), V. Obsomer (2010, UCL), E. Dion (2011, UCL), S Bennema (2011, Ghent U.), D. Yewhalaw Gebre (2012, UCL and Ghent U.), P. Suykerbuyk (2011, U. Antwerp), V. Zunz (2015, UCL), L. Wilschut (2015, U. Utrecht), R. Vanegas (U. Namur, 2015), J. Rodriguez Lanes (2016, UCL), J. Kuleszo (2017, U. Southampton), J. Cat (2017).

*Since 2017*: UCL LGEO1252 (partim) Terrains en Géographie

*Since 2016:* UCL WMPHM2204, Impact of environment on health in developing countries with disease mapping and multilevel analysis methods.

*Since 2015:* UCL LGEO2400: Stages.

*Since 2015:* UCL LGEO1341: Modélisation statistique en géographie.

*Since 2012:* UCL LGEO2230: Medical Geography.

*Since 2007:* UCL LGEO1321: Rural geography and geography of health; LGEO1342: Geographical Information Systems; LGEO2130: Geographical modelling; LGEO2270: Field work.

*2007-2010:* UCL Supervision of Personal project GEO1381.

*2016, 2017*: Guest lectures in University of Birmingham (Masters in Public Health), Université de Namur.

*2007:* adjunct professor, Facultés Universitaires Notre-Dame de la Paix, Namur. Courses: Advanced GIS and thematic cartography; Spatial Modelling and GIS.

*Since 2003:* Supervision or co-supervision of 21 masters thesis.

*2006:* supervision of high-school trainees.

*Since 2005:* leader of an activity on remote sensing for primary schools.

*2003, 2004, 2006 & 2007:* supervision of 10 post-graduate trainees in cartography and remote sensing.

*2005*: Undergraduate thesis evaluation for the Agricultural and Biological Engineering Faculty, UCL.

**Languages**

French: mother tongue.

English: fluent (written and spoken).

Dutch: advanced conversational.

Italian: conversational.

**Peer-reviewed publications**

Rousseau R., McMahon B., McGrath G. **Vanwambeke S.O**., 2017, Multi-criteria decision analysis t model Ixodes ricinus habitat suitability. Accepted in Ecohealth.

Rodriguez-Hidalgo R., Pérez-Otáñez X., Garcès-Carrera S., **Vanwambeke S.O.**, Madder M., Benitez-Ortiz M., 2017, The current status of resistance to alpha-cypermethrin, ivermectin, and amitraz of the cattle tick (*Rhipicephalus microplus*) in Ecuador. PLoS ONE 12(4): e0174652

De Keukeleire M., **Vanwambeke S.O.**, Cochez C., Heyman P., Fretin D., De Neys V., Luyasu V., Kabamba B., Robert A., 2017, Seroprevalence of Borrelia burgdorferi, Anaplasma phagocytophilum, and Francisella tularensis infections in Belgium: results of three population-based samples. Vecotr-borne and Zoonotic Diseases 17(2):108-115

**Vanwambeke S.O.**, Li S., Hartemink N.A., 2016, A resource-based habitat concept for tick-borne diseases. Pages: 205 - 216 In: Braks M.A.H., van Wieren S.E., Takken W., Sprong H. (eds), 2016, Ecology and prevention of Lyme borreliosis. Ecology and Control of Vector-borne diseases Vol4., Wageningen: Wageningeng Academic Publishers

De Keukeleire M., Robert A., Kabamba B., Dion E., Luyasu V., **Vanwambeke S.O.**, 2016, Individual and environmental factors associated with the seroprevalence of Borrelia burgdorferi in Belgian farmers and veterinarians. Infection Ecology & Epidemiology 6: 32793.

**Vanwambeke S.O.**, Van doninck J., Artois J., Davidson R.K., Meyfroidt P., Jore S., 2016, Forest classes and tree cover gradient: tick habitat in encroached areas of southern Norway. Experimental and Applied Acarology, 68(3), 375-385.

Li S., Colson V., Lejeune P., **Vanwambeke S.O.**, 2016, On the distance travelled for woodland leisure via different transport modes in Wallonia, South Belgium. Urban Forestry & Urban Greening 15 (123-132)

Li, S., Colson V., Lejeune P., Speybroeck N., **Vanwambeke S.O.** 2015. Agent-based modelling of the spatial pattern of leisure visitation in forests: A case study in Wallonia, south Belgium. Environmental Modelling & Software 71:111-125. doi: 10.1016/j.envsoft.2015.06.001

De Keukeleire M., **Vanwambeke S.O.**, Somassé E., Kabamba B., Luyausu V., Robert A., 2015, Scouts, forests, and ticks: impact of landscapes on human-tick contacts, Ticks and tick-borne diseases. 6(5):636-44. doi:10.1016/j.ttbdis.2015.05.008

Cianci D., Hartemink N., Zeimes C.B., **Vanwambeke S.O.**, Ienco A., Caputo B., 2015, High Resolution Spatial Analysis of Habitat Preference of Aedes albopictus (Diptera:Culicidae) in an urban environment, Journal of Medical Entomology 52 (3), 329-335

Zeimes CB, Quoilin S, Henttonen H, Lyytikainen O, Vapalahti O, Reynes J, Reusken C, Swart A, Vainio K, Hjertqvist M and **Vanwambeke S.O.**, 2015, Landscape and regional environmental analysis of the spatial distribution of hantavirus human cases in Europe. Front. Public Health 3:54. doi: 10.3389/fpubh.2015.00054

De Clercq E.M., Leta S., Estrad-Peña A., Madder M., **Vanwambeke S.O.**, 2014, Species distribution modelling for Rhipicephalus microplus (Acari: Ixodidae) in Benin, West Africa: Comparing datasets and modelling algorithms, Preventative Veterinary Medicine, 118 (1): 8-21.

Hartemink N., **Vanwambeke S.O.**, Purse B.V., Gilbert M., Van Dyck H., 2014, Towards a resource-based habitat approach for spatial modeling of vector-borne diseases risks. Biological Reviews, 90(4): 1151-1162. DOI: 10.1111/brv.12149

Zeimes C.B., Olsson G.E., Hjertqvist M., **Vanwambeke S.O.**, 2014, Shaping zoonosis risk: landscape ecology vs. landscape attractiveness for people, the case of tick-borne encephalitis in Sweden, Parasites & Vectors, 7:370, doi:10.1186/1756-3305-7-370 link

Li S., **Vanwambeke S.O.**, Liccope A.M., Speybroeck N., 2014, Impacts of deer management practices on the spatial dynamics of the tick Ixodes ricinus: a scenario analysis, Ecological Modelling, 276: 1-13 doi:10.1016/j.ecolmodel.2013.12.023

Jore S., **Vanwambeke S.O.**, ViljugreinH., IsaksenK., Kristoffersen A.B., Woldehiwet Z., Johansen B., Brun E., Brun-Hansen H., Westermann S., Larsen I.-L., Ytrehus B., Hofshagen M., 2014, Climate and environmental change drives Ixodes ricinus geographical expansion at the northern range margin, Parasites & Vectors, 7:11 doi:10.1186/1756-3305-7-11,

Mereta S., Yewhalaw D., Boets P., Ahmed Abdulhakim A., Duchateau L., Speybroeck N., **Vanwambeke S.O.**, Legesse W., De Meester L., Goethals P.L.M., 2013, Physico-chemical and biological characterization of anopheline mosquito larval habitats (Diptera: Culicidae): implications for malaria control, Parasites & Vectors, 6:320, doi:10.1186/1756-3305-6-320

De Clercq E.M., Estrada-Peña A., Adehan, S., Madder M., **Vanwambeke S.O.**, 2013, An update on distribution models for Rhipicephalus microplus in West Africa, Geospatial Health 8(1): 301-308

Keune K., Kretsch C., De BlustG., GilbertM., Flandroy L., Van den Berge K., Versteirt V., Hartig T., De Keersmaecker L., Eggermont H., Brosens D., Dessein J., **Vanwambeke S.**, Prieur-Richard A. H., Wittmer H., Van Herzele A., Linard C., Martens P., Mathijs E., Simoens I., Van Damme E., Volckaert F., Heyman P. and Bauler T., 2013, Science–policy challenges for biodiversity, public health and urbanization: examples from Belgium Environ. Res. Lett. 8 025015 doi:10.1088/1748-9326/8/2/025015

Zeimes C.B., Olsson G.E., Ahlm C., **Vanwambeke S.O.**, 2012, Modelling zoonotic diseases in humans: comparison of methods for hantavirus in Sweden. International Journal of Health Geographics, 11:39 doi:10.1186/1476-072X-11-39

Li S., Heyman P., Cochez C., Simons L., **Vanwambeke S.O.**, 2012, A multi-level analysis of the relationship between environmental factors and questing Ixodes ricinus dynamics in Belgium. Parasites and Vectors, 5:149.

De Clercq E.M., **Vanwambeke S.O.**, Sungirai M., Adehan S., Lokossou R., Madder M., 2012, Geographic distribution of the invasive cattle tick Rhipicephalus microplus, a country-wide survey in Benin, Experimental and Applied Acarology, 58:441-452.

Li S., Hartemink N., Speybroeck N., **Vanwambeke S.O.**, 2012, Consequences of landscape fragmentation on Lyme disease risk: a cellular automata approach, PLoS ONE, 7(6): e39612. doi:10.1371/journal.pone.0039612

Madder M., Walker J.G. , Van Rooyen J., Knobel D., De Clercq E. , **Vanwambeke S.**O., D. Berkvens, 2012, e-Surveillance in Animal Health: use and evaluation of mobile tools. Parasitology, 139, Special Issue 14: 1831-1842.

**Vanwambeke S.O.**, Meyfroidt P., Nikodemus O., From USSR to EU: 20 years of landscape change in northeastern Latvia. Landscape & Urban Planning. 105: 241-249. Doi:10.1016/j.landurbplan.2011.12.009

Hartemink N., **Vanwambeke S.O.**, Heesterbeek J.A.P., Rogers D.J., Morley D., Pesson B., Davies C., Mahamdallie S., Ready P., Integrated Mapping of Establishment Risk for Emerging Vector-Borne Infections: a Case Study of Leishmaniasis in South-Western France. PLoS ONE 6(8): e20817. doi:10.1371/journal.pone.0020817.

**Vanwambeke S.O.**, Bennett S.N., Kapan D., 2011, Spatial distribution of high risk for dengue virus transmission in Oahu, Hawaii. Tropical Medicine and International Health 16 (2): 174-185 doi: 10.1111/j.1365-3156.2010.02671.x.

Lambin E.F., Tran A., **Vanwambeke S.O.**, Soti V., Linard C., 2010, Pathogenic landscapes: Interactions between land, people, disease vectors, and their animal hosts. International Journal of Health Geographics 9:54 doi:10.1186/1476-072X-9-54

**Vanwambeke S.O.**, Šumilo D., Bormane A., Lambin E.F., Randolph S.E., 2010, Landscape predictors of tick-borne encephalitis in Latvia: land cover, land use and land ownership. Vector-Borne and Zoonotic Diseases. 10(5): 497-506. doi:10.1089/vbz.2009.0116

Gondwe N., Marcotty T., **Vanwambeke S.O.**, Mulumba M., Van den Bossche P., 2009, The distribution and density of testse flies (Glossinidae: Diptera) inside and along the edge of Nkhotakota Game Reserve in Malawi. Ecohealth. 6(2): 260-265. doi: 10.1007/s10393-009-0252-y

Dereure J., **Vanwambeke S.O.**, Malé P., Martinez S., Pratlong F., Balard Y., Dédet J.P., 2009, The potential effects of global warming on changes in an “ectopic” focus of canine leishmaniasis in the middle Ariège valley (Southern France), Vector-borne and zoonotic diseases, 9(6): 687-694.

Linard C., Lamarque P., Heyman P., Ducoffre G., Luyasu V., Tersago K., **Vanwambeke S.O.**, Lambin E.F., 2007, Determinants of the geographic distribution of Puumala hantavirus and Lyme borreliosis infections in Belgium, International Journal of Health Geographics 6:15.

**Vanwambeke S.O.**, Lambin E.F., Eichhorn M.P., Flasse S.P., Harbach R.E., Oskam L., Somboon P., van Beers S., van Benthem B.H.B, Walton C., Butlin R.K., 2007, Impact of land use change on dengue and malaria in northern Thailand, Ecohealth, 4(1): 37-51.

**Vanwambeke S.O.**, Somboon P., Lambin E.F., 2007, Rural transformation and social differentiation in northern Thailand, Journal of Land Use Science, 2(1): 1-29. doi 10.1080/17474230601145943

**Vanwambeke S.O.**, Somboon P., Harbach R.H., Isenstadt M., Lambin E.F., Walton C., Butlin R.K., 2007, Landscape and land cover factors influence the presence of Aedes and Anopheles larvae, Journal of Medical Entomology, 144: 133-144.

**Vanwambeke S.O.**, van Benthem B.H.B, Khantikul N., Burghoorn-Maas C., Panart K., Oskam L., Lambin E.F., Somboon P., 2006, Multi-level analyses of spatial and temporal determinants for dengue infection, International Journal of Health Geographics, 5:5

van Benthem B.H.B, **Vanwambeke S.O.**, Khantikul N., Burghoorn-Maas C., Panart K., Oskam L., Lambin E.F., Somboon P., 2005, Spatial patterns of and risk factors for seropositivity for dengue infection, American Journal of Tropical Medicine and Hygiene, 72 (2): 201-208.

**Other scientific publications**

**Vanwambeke S.O.**, 2012, Forest and Health: the Landscape Lens, Human Evolution/Global Bioethics, 27(1-3): 111-115

**Vanwambeke S.O.**, Rosen G., 2010, The fearsome and the fuzzy. Cover essay in Ecohealth doi: 10.1007/s10393-009-0265-6

Hartemink N., **Vanwambeke S.O.**, Heesterbeek J.A.P., Rogers D.J., Morley D., Lambin E.F., Pesson B., Davies C., Mahamdallie S., Ready P., 2009, Modelling and mapping the basic reproduction number R0 for canine leishmaniasis: a case study for a region in South West France. In: “Vector-borne diseases: the basic reproduction number R0 and risk maps”, Hartemink N., PhD dissertation.

Martínez S., **Vanwambeke S.O.**, Ready P., 2007, Linking changes in landscape composition and configuration with sandfly occurrence in Southwest France, IEEE, Analysis of multi-temporal remote sensing images, Multitemp 2007.

**Vanwambeke S.O.**, Lambin E.F., 2006, Environmental change and vector-borne diseases: the contribution of remote sensing and spatial analyses, Encyclopedia of Life Support System (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK, [http://www.eolss.net].

**Vanwambeke S.O.**, Lambin E.F., 2006, Environmental change and vector-borne diseases: the case of dengue and malaria in northern Thailand, Bulletin des Séances de l’Académie Royale des Sciences d’Outre-Mer, Hommage à la secrétaire perpétuelle honoraire Yola Verhasselt.

**Publications related to outreach activities**

Beutels, Ph., Bottiau, E., Colebunbers, B., Geerts, S., Gilbert, M., Hendrickx, G., Hens, N., Humblet, Alicia,Keune, H., Leveque, A., Linard, C., Saegerman, C., Speybroeck, Niko, Swennen, B., Thiry, E., Van Damme,P., van den Berg, T., Van geertruyden, P., Van Laethem, Y., Van Ranst, M., **Vanwambeke S.** (2014). Ebola is ook ons probleem. De Standaard

Beutels, Ph., Bottiau, E., Colebunbers, B., Geerts, S., Gilbert, M., Hendrickx, G., Hens, N., Humblet, Alicia,Keune, H., Leveque, A., Linard, C., Saegerman, C., Speybroeck, Niko, Swennen, B., Thiry, E., Van Damme,P., van den Berg, T., Van geertruyden, P., Van Laethem, Y., Van Ranst, M., **Vanwambeke S.** (2014). Epidémie d'Ebola: une réponse internationale qui bafouille. Le Soir

**Vanwambeke S.**, Meyfroidt P., 2005, Un oeil sur la planète [An eye on the planet], revue Science Infuse, Louvain-la-Neuve, avril-mai-juin.

Henry S., **Vanwambeke S.**, 2002, Le temps: la quatrième dimension en géographie [Time: the fourth dimension in geography], revue Science Infuse, Louvain-la-Neuve, octobre-décembre.

**Conferences**

3-7 December 2016 **Vanwambeke S.O.** From functional ecology to human risk of infection. Oral presentation. One Health Ecohealth Conference, Melbourne, Australia

3-7 December 2016 De Keukeleire M., Robert A., **Vanwambeke S.O.** Understanding spatial variation in tick-borne disease risk is essential for disease management. Poster presentation. One Health Ecohealth Conference, Melbourne, Australia

21-23 April 2015: **Vanwambeke S.**, Hartemink N., Puse B., Gilbert M., Van Dyck H. A resource-based habitat approach for modeling vector-borne disease risks, GERI “Genes, Ecosystems and Risk of Infection”, 21-23 April 2015, Heraklion, Greece, oral presentation

21-23 April 2015: Zeimes C., Vanwambeke S Clues and tools to model spatial distribution of zoonoses based on the tip of the iceberg, the human cases GERI “Genes, Ecosystems and Risk of Infection”, 21-23 April 2015, Heraklion, Greece, poster

21-23 April 2015: Vanwambeke S, Van doninck J., Artois J., Meyfroidt P., Jore S Changing farming, bush encroachment, and tick-borne disease risk in Southern Norway GERI “Genes, Ecosystems and Risk of Infection”, 21-23 April 2015, Heraklion, Greece, poster

21-23 April 2015: **Vanwambeke S.**, Dressel K., Sedda L., Tersago K., Wint W., Niedrig M., EDENext models for public health: two cultures, one goal. Case study of hantavirus disease in Germany GERI “Genes, Ecosystems and Risk of Infection”, 21-23 April 2015, Heraklion, Greece, poster

23- 25 March 2015: **S.O. Vanwambeke,** N. Hartemink, B.V. Purse, M. Gilbert, H. Van Dyck A resource-based habitat approach for modelling vector-borne disease risks, IECID “Impact of Environmental Changes on Infectious Diseases” 2015, 23-25 march 2015, Sitges, Spain, oral presentation

23- 25 March 2015: **S.O. Vanwambeke,** J. Van doninck, J. Artois, P. Meyfroidt, S. Jore Changing farming, bush encroachment, and tick-borne disease risk in Southern Norway, IECID “Impact of Environmental Changes on Infectious Diseases” 2015, 23-25 march 2015, Sitges, Spain, oral presentation

23- 25 March 2015: K.M. Dressel, **S.O. Vanwambeke,** W. Wint, M. Niedrig EDENext models for public health: Two cultures, one goal. Case study of hantavirus disease in Germany, IECID “Impact of Environmental Changes on Infectious Diseases” 2015, 23-25 march 2015, Sitges, Spain, poster presentation

23- 25 March 2015: C.B. Zeimes, **S.O. Vanwambeke** Clues and tools to model spatial distribution of zoonoses based on the tip of the iceberg, the human cases, IECID “Impact of Environmental Changes on Infectious Diseases” 2015, 23-25 march 2015, Sitges, Spain, poster presentation

11-15 August 2014 **Vanwambeke S.**, Hartemink N., Purse B., Gilbert M., Van Dyck H., Towards a resource-based habitat approach for spatial modelling of vector-borne disease risk, 2014, Ecohealth conference, Montréal, Canada (oral presentation).

11-15 August 2014 Zeimes C., **Vanwambeke S.**, Shaping zoonoses risk using landscape ecology and landscape attractiveness for people, two case studies in Europe, 2014, Ecohealth conference, Montréal, Canada (oral presentation).

11-15 August 2014 De Clercq E., **Vanwambeke S.**, Land cover and transhumance routes in Benin, West Africa, 2014, Ecohealth conference, Montréal, Canada (oral presentation).

25 May 2011: Belgian Earth Observation Day 2011, Hasselt. Presentation: “Multilevel study of the environmental factors of the spatial distribution of tick-boren diseases”, Eva M. De Clercq, **Sophie O. Vanwambeke**, Maxime Madder.

10-12 May 2010: International Conference EDEN 2010, Montpellier, France. Oral presentation: “Landscape and vector-borne and zoonotic diseases: a complex interaction illustrated with tick-borne encephalitis in Latvia“, S. O. Vanwambeke, D. Sumilo, A. Bormane, E. F. Lambin, S. E. Randolph; Oral presentation: “R0 maps for canine leishmaniasis”, N. Hartemink, S. Vanwambeke, H. Heesterbeek, D. Rogers, D. Morley, E. Lambin, B. Pesson, C. Davies, S. Mahamdallie, P. Ready; Poster: “Incidence and trend of disseminated stages of Lyme Borreliosis in the province of Brabant Wallon (Belgium): retrospective data of a reference center”, Y.E. Somassè, V. Luyasu, **S.O. Vanwambeke**, A.R. Robert; Poster: “Spatial heterogeneity and dynamics of pathogen transmission in tick-borne disease System”, S. LI, S. O. Vanwambeke; Poster: “Incidence and trend of disseminated stages of Lyme Borreliosis in the province of Brabant Wallon (Belgium): retrospective data of a reference center” Y.E. Somassè, V. Luyasu, S.O. Vanwambeke, A.R. Robert.

1-3 September 2010: Climate change, health and ecology conference, Uppsala, Sweden: Poster: “Landscape and tick-borne encephalitis in Sweden: decomposing land cover and land use”, **Sophie O. Vanwambeke**, Marika Hjertqvist, Malin Arneborn, Åke Lundkvist, Gert E. Olsson.

18-20 August 2010: Ecohealth 2010 Conference. Oral presentation: Landscape and vector-borne diseases: a complex interaction illustrated with mosquito and tick-borne diseases, Sophie O. Vanwambeke. Poster: Landscape and tick-borne encephalitis in Sweden: decomposing land cover and land use **Sophie O. Vanwambeke**, Marika Hjertqvist, Malin Arneborn, Åke Lundkvist, Gert E. Olsson

July 2009: Hawaii Conservation Conference 2009. Oral presentation: Heterogeneity in the Spatial Distribution of Humans and Mosquitoes: Dengue Risk On Oahu. **Sophie O. Vanwambeke**, Durrell D. Kapan

28 April 2009: Belgian Earth Observation Day 2009, Hasselt. Poster: “Multilevel study of the environmental factors of the spatial distribution of tick-boren diseases”, Marie Joiret, **Sophie O. Vanwambeke**

6 February 2009: Climate change impact on ticks and tick-borne diseases. What strategy for Lyme borreliosis and Tick-borne encephalitis, Brussels. Invited speaker for the joined presentation: “Spatial distribution of Lyme borreliosis and TBE: landscape and beyond”, with Catherine Linard.

1-5 December 2008: International Forum EcoHealth 2008, Merida, Mexico. Oral presentation: “Tick-Borne Encephalitis in the Baltic States:The Biological and Human Landscapes”, **Vanwambeke S.O.**, Sumilo D., Bormane A., Lambin E.F., Randolph S.E.. Session: “Ecosystem multidimensional perspectives to viral infectious diseases”.

16-18 September 2008: Ecohealth in coupled human-natural systems, Anthropogenic change, biodiversity loss and disease emergence, East-West Center and University of Hawaii, Honolulu. Joined presentation: “The Ecohealth approach to health”, Simon Firestone, **Sophie Vanwambeke**, Bruce Wilcox.

3-5 September 2008: Bristish Ecological Society Annual Meeting, Imperial College, London. Lukomski, L., **Vanwambeke S.O.**, Bennett M., Begon M.: “Spatial aspects of cowpox in wild rodent communities in Northern England”.

18-20 July 2007: Fourth International Workshop on the Analysis of Multi-Temporal Remote Sensing Images - MULTITEMP-2007. Joined presentation: Martínez S., **Vanwambeke S.**O., Ready P. “Linking changes in landscape composition and configuration with sandfly occurrence in southwest France”. Proceedings of MULTITEMP-2007, Fourth International Workshop on the Analysis of Multi-Temporal Remote Sensing Images, Leuven, 18-20 July 2007, IEEE

23-25 February 2007: International meeting on Emerging Diseases and Surveillance (IMED), International Society for Infectious Diseases, Vienna. Joined presentation: Lambin, E., Linard C. and **Vanwambeke S.**, "Land-use/land-cover Change and Vector-borne Diseases: Remote Sensing and Multi-agent Simulations".

7 - 9 October 2006: Ecohealth One, University of Wisconsin, Madison. Presentation: “Land use change and dengue fever in rural areas of northern Thailand. Integrating land use and human factors in vector-borne disease transmission”.

8 - 11 October 2006: 1st OIE International Conference: Use of GIS in Veterinary Activities Silvi Marina, Abruzzo, Italy). Joined presentation: Linard C., **Vanwambeke S.O.**, Lambin E.F., "Landscape and land cover as determinants of vector/host habitat suitability and disease exposure"

5 - 7 September 2006: Annual Meeting of the British Ecology Association, Oxford. Presentation: “Land use change and dengue fever in rural areas of northern Thailand. Integrating land use and human factors in vector-borne disease transmission”.

10 - 13 October 2005: The 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, University of Bonn. Presentation and Poster: “Predicting Risks of Mosquito-Borne Diseases from Land Use Change”;

3 - 8 January 2002: East-West Center, Honolulu, Hawaii. Participation to the workshop “Linking Household and Remotely Sensed Data: Methodological and Practical Problems”.

10 - 13 July 2001, Amsterdam. Global Change Open Science Conference: Challenges of a changing Earth. Poster: “Land Use changes in northern Thailand and their impact on mosquito-borne diseases”.

**Invited seminars, workshops, doctoral schools and other presentations**

25-26 October 2016, **Vanwambeke S.**Application to disease spread (in Asia). A view on mapping exposure EMDAT technical advisory group meeting

25-26 August 2016 **Vanwambeke S.**Notre santé aussi une question géographique. Congrès des professeurs de Science. Louvain-la-Neuve, Belgium.

7 June 2016: Invited keynote speaker: « A resource-based habitat concept for vector-borne and zoonotic diseases: amuch needed conceptual framework for studies of environmental suitability”. Vectoland Workshop. UCL, Louvain-la-Neuve

16 February 2016: Invited talk “Une perspective géographique des maladies à vecteurs et zoonoses”. Académie Royale des Sciences d’Outre-Mer, Bruxelles.

10 July 2015: Invited talk: “Landscape epidemiology of vector-borne infections in Europe” Universiteit Utrecht Belle van Zuylen workshop

17-20 Novembre 2013 One Health conference organized by the Davos International Disaster Research Centre: workshop organiser: « Improving Public Health Risk Governance by Integrating Modelling with Concern Assessment » in collaboration with the public health partners of the Edenext project.

14 November 2013: Invited talk: “Environmental factors of tick-borne diseases distribution”. E3 Launch meeting, European Centre for Disease Control, Stockholm, Sweden

28-29 August 2013: Keynote presentation: “The vector, the landscape, the ecosystem: a geographical lens on vector-borne diseases” LEPUS conference, Sebastian Kolowa Memorial University (SEKOMU), Lushoto, Tanzania

5 April 2013: Invited seminar “The vector, the landscape, the ecosystem: a geographical lens on tick-borne diseases”. Noerwegian Veterinary Institute, Oslo, Norway

30 November 2011: Biodiversity and Health in Belgium workshop. Member of the scientific committee. Organizer of the workshop “Spatial tools for studying environment and health”.

19-21 September 2011: Invited talk: “Landscape: a geographical lens on disease ecology”. Verbania, Italy, Global Environmental Change and Human Health: Healthy Forests for Life. Organised by the Global Environmental Change and Human Health of the United Nations University (UNU-INWEH)

7 May 2011: Invited Seminar: “Landscape and vector-borne diseases: a complex interaction” Séminaire de microbiologie Clinique de l’Hôpital Erasme, ULB, Bruxelles

17 November 2010: Invited talk “Landscape and infectious diseases: a geographical approach” Ghent University, Faculty of Veterinary medecine.

6 April 2009: Invited seminar: “Environment and human health: landscape, land cover, land use and vector-borne diseases”. Swedish University of Agricultural Sciences and Dept. of Clinical Microbiology, Umeå University, Umeå, Sweden

3 April 2009: Invited seminar: “Environment and human health: landscape, land cover, land use and vector-borne diseases”. Swedish Institute for Infectious Diseases Control

16 October 2008: University of Hawaii at Manoa, Department of Geography. Invited seminar: “Environment and human health: landscape, land cover, land use and vector-borne diseases”.

16 January 2008: The University of Latvia, Riga. Invited seminar: “Remote Sensing, land science and the study of vector-borne diseases”.

6 December 2007: The University of Sheffield. Invited seminar: “Environnement and human health: landscape, land cover, land use and vector-borne diseases”.

4 December 2007: Department of Zoology, Oxford University. Presentation: “Spatial distribution of tick-borne encephalitis: landscape and beyond”.

8 November 2007: Oxford University Centre for the Environment, Biodiversity research group seminars. Presentation: “Environnement and human health: landscape, land cover, land use and vector-borne diseases”.

10-12 January 2007: EDEN general annual meeting, Antalya, Turkey. Joined plenary presentation with Dana Sumilo (Oxford University): “Relationships between TBE incidence, land cover and landscape factors in the Baltic States”

11 October 2006: Clyde Kohn colloquium, Department of Geography, University of Iowa. Presentation: “Land use change and dengue fever in rural areas of northern Thailand. Integrating land use and human factors in vector-borne disease transmission”.

16 May 2006: School of Biology, Nottingham University. Presentation: “Landscape, land cover and land use, and vector-borne diseases”.

11 May 2006: Department of Zoology, Oxford University. Presentation: “Landscape, land cover and land use, and vector-borne diseases”.

12-14 January 2006: EDEN general annual meeting, Rovaniemi, Finland. Presentation: “Environmental change at the landscape scale”

1 December 2005: Department of Rural Economics (UCL). Presentation: “Impacts of land use change on mosquito-borne diseases in northern Thailand”.

25-27 September 2005: 2nd RISKMODEL workshop, Chiang Mai. Presentations: “Physical and socio-economic factors of land use change in rural areas of northern Thailand”, “Riskmodel development: incorporation of mosquito and epidemiological data into the model”, “Outcomes of scenarios using Riskmodel”.

2005: doctoral school GEOS (UCL).

17 June 2003: The University of Salford, “Epidemiology: a Spatial Perspective”. Joint presentation by van Benthem B., **Vanwambeke S.**, Butlin R., Flasse S., Harbach R., Lambin E., Oskam L., Somboon P., Walton C.: “Predicting the risk of mosquito-borne disease based on land use change in northern Thailand”.

22 April 2003: Prince Leopold Institute of Tropical Medicine, Antwerp, “Workshop on the Contribution of Remote Sensing to Spatial Epidemiology and Zoogeography”. Presentation: “RISKMODEL: predicting the risks of mosquito-borne diseases from land use change”.

28 March 2003: 1st RISKMODEL workshop, Chiang Mai University, Chiang Mai. Presentation: “RISKMODEL: a tool for decision makers”.

27 October - 2 November 2002: LUCC, Louvain-la-Neuve. Participation in the European advanced study course “Modelling Land Use Change”.