(Janssen & Martens, 1997; Martens, 1997)

(Yang, 2000)

(Ruiz, 2002; Ruiz et al., 2002, 2003)

(Hoshen & Morse, 2004)

(Ruiz et al., 2006)

(Wyse, Bevilacqua, & Rafikov, 2007)

(Parham & Michael, 2010)

(Bhadra et al., 2011; Laneri et al., 2010)

(Ermert, Fink, Jones, & Morse, 2011a, 2011b)

(Alonso, Bouma, & Pascual, 2011)

(Montosi, Manzoni, Porporato, & Montanari, 2012)

(Tompkins & Ermert, 2013)

(Lunde, Bayoh, & Lindtjørn, 2013)

(Roy, Bouma, Ionides, Dhiman, & Pascual, 2013)

(Rodríguez, Delgado, Ramos, Weinberger, & Rangel, 2013)

(Baeza, Bouma, Dhiman, & Pascual, 2014)

(Bernal-García et al., 2014)

(Ngarakana-Gwasira, Bhunu, & Mashonjowa, 2014)

(Laneri et al., 2015)

(Roy, Bouma, Dhiman, & Pascual, 2015)

Africa: (Alonso et al., 2011; Ermert et al., 2011a, 2011b; Hoshen & Morse, 2004; Laneri et al., 2015; Montosi et al., 2012; Tompkins & Ermert, 2013)

India: (Baeza et al., 2014; Bhadra et al., 2011; Laneri et al., 2010; Roy et al., 2015, 2013)

Colombia: (Bernal-García et al., 2014; Ruiz, 2002; Ruiz et al., 2002, 2003, 2006)

Pascual & Bouma: (Alonso et al., 2011; Baeza et al., 2014; Bhadra et al., 2011; Laneri et al., 2010; Roy et al., 2015, 2013)

Alonso, D., Bouma, M. J., & Pascual, M. (2011). Epidemic malaria and warmer temperatures in recent decades in an East African highland. *Proceedings of the Royal Society B: Biological Sciences*, *278*(1712), 1661–1669. http://doi.org/10.1098/rspb.2010.2020

Baeza, A., Bouma, M. J., Dhiman, R., & Pascual, M. (2014). Malaria control under unstable dynamics: Reactive vs. climate-based strategies. *Acta Tropica*, *129*(null), 42–51. http://doi.org/10.1016/j.actatropica.2013.04.001

Bernal-García, S., Díez-Echavarría, L., Arango-Aramburo, S., Suaza-Vasco, J., Uribe-Soto, S., Jaramillo, L., & Poveda, G. (2014). An Improved Mathematical Model of Malaria Incidence in Colombia. In *WCRP Conference for Latin America and the Caribbean: Developing, linking, and applying climate knowledge.* Montevideo: World Climate Research Programme. http://doi.org/10.13140/2.1.5192.6725

Bhadra, A., Ionides, E. L., Laneri, K., Pascual, M., Bouma, M., & Dhiman, R. C. (2011). Malaria in Northwest India: Data Analysis via Partially Observed Stochastic Differential Equation Models Driven by Lévy Noise. *Journal of the American Statistical Association*, *106*(494), 440–451. http://doi.org/10.1198/jasa.2011.ap10323

Ermert, V., Fink, A. H., Jones, A. E., & Morse, A. P. (2011a). Development of a new version of the Liverpool Malaria Model. I. Refining the parameter settings and mathematical formulation of basic processes based on a literature review. *Malaria Journal*, *10*(1), 35. http://doi.org/10.1186/1475-2875-10-35

Ermert, V., Fink, A. H., Jones, A. E., & Morse, A. P. (2011b). Development of a new version of the Liverpool Malaria Model. II. Calibration and validation for West Africa. *Malaria Journal*, *10*(1), 35. http://doi.org/10.1186/1475-2875-10-35

Hoshen, M. B., & Morse, A. P. (2004). A weather-driven model of malaria transmission. *Malaria Journal*, *3*(1), 32. Retrieved from http://www.malariajournal.com/content/3/1/32

Janssen, M. A., & Martens, W. J. M. (1997). Modeling malaria as a complex adaptive system. *Artificial Life*, *3*(3), 213–36. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/9385735

Laneri, K., Bhadra, A., Ionides, E. L., Bouma, M., Dhiman, R. C., Yadav, R. S., & Pascual, M. (2010). Forcing Versus Feedback: Epidemic Malaria and Monsoon Rains in Northwest India. *PLoS Computational Biology*, *6*(9), e1000898. http://doi.org/10.1371/journal.pcbi.1000898

Laneri, K., Paul, R. E., Tall, A., Faye, J., Diene-Sarr, F., Sokhna, C., … Rodó, X. (2015). Dynamical malaria models reveal how immunity buffers effect of climate variability. *Proceedings of the National Academy of Sciences of the United States of America*, *112*(28), 8786–91. http://doi.org/10.1073/pnas.1419047112

Lunde, T. M., Bayoh, M. N., & Lindtjørn, B. (2013). How malaria models relate temperature to malaria transmission. *Parasites & Vectors*, *6*(1), 20. http://doi.org/10.1186/1756-3305-6-20

Martens, W. J. M. (1997). *Health impacts of climate change and ozone depletion: an eco-epidemiological modelling approach..pdf*. Maastricht University.

Montosi, E., Manzoni, S., Porporato, A., & Montanari, A. (2012). An eco-hydrologic model of malaria outbreaks. *Hydrology and Earth System Sciences Discussions*, *9*(3), 2831–2854. http://doi.org/10.5194/hessd-9-2831-2012

Ngarakana-Gwasira, E. T., Bhunu, C. P., & Mashonjowa, E. (2014). Assessing the impact of temperature on malaria transmission dynamics. *Afrika Matematika*, *25*(4), 1095–1112. http://doi.org/10.1007/s13370-013-0178-y

Parham, P. E., & Michael, E. (2010). Modelling Climate Change and Malaria Transmission. In E. Michael & R. C. Spear (Eds.), *Modelling Parasite Transmission and Control* (Vol. 673, pp. 184–99). Landes Bioscience and Springer Science+Business Media. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/20632538

Rodríguez, D. J., Delgado, L., Ramos, S., Weinberger, V., & Rangel, Y. (2013). A model for the dynamics of malaria in Paria Peninsula, Sucre State, Venezuela. *Ecological Modelling*, *259*(0), 1–9. http://doi.org/http://dx.doi.org/10.1016/j.ecolmodel.2013.03.005

Roy, M., Bouma, M., Dhiman, R. C., & Pascual, M. (2015). Predictability of epidemic malaria under non-stationary conditions with process-based models combining epidemiological updates and climate variability. *Malaria Journal*, *14*(1), 419. http://doi.org/10.1186/s12936-015-0937-3

Roy, M., Bouma, M. J., Ionides, E. L., Dhiman, R. C., & Pascual, M. (2013). The Potential Elimination of Plasmodium vivax Malaria by Relapse Treatment: Insights from a Transmission Model and Surveillance Data from NW India. *PLoS Neglected Tropical Diseases*, *7*(1), e1979. http://doi.org/10.1371/journal.pntd.0001979

Ruiz, D. (2002). *Modelación de la interacción entomológica-climática de la transmisión de la malaria (Unpublished master thesis)*. Universidad Nacional de Colombia sede Medellín.

Ruiz, D., Poveda, G., Quiñones, M. L., Vélez, I. D., Rúa-Uribe, G., Rojas, W., & Zuluaga, J. S. (2002). Modelación sistémica para el diagnóstico de la interacción clima-malaria en Colombia. Aplicación durante El Niño 1997-98 y La Niña 1998-2000. *Meteorología Colombiana*, *5*, 41–48. Retrieved from http://ciencias.bogota.unal.edu.co/fileadmin/content/geociencias/revista\_meteorologia\_colombiana/numero05/05\_05.pdf

Ruiz, D., Poveda, G., Quiñones, M. L., Vélez, I. D., Rúa-Uribe, G., Rojas, W., & Zuluaga, J. S. (2003). Modelación de la interacción entomológica-climática de la transmisión de la malaria mediante dinámica de sistemas. *Revista Colombiana de Entomología*, *29*(2), 191–201. Retrieved from http://ref.scielo.org/58tjcv

Ruiz, D., Poveda, G., Vélez, I. D., Quiñones, M. L., Rúa-Uribe, G., Velásquez, L. E., & Zuluaga, J. S. (2006). Modelling entomological-climatic interactions of Plasmodium falciparum malaria transmission in two Colombian endemic-regions: contributions to a National Malaria Early Warning System. *Malaria Journal*, *5*(1), 66. http://doi.org/10.1186/1475-2875-5-66

Tompkins, A. M., & Ermert, V. (2013). A regional-scale, high resolution dynamical malaria model that accounts for population density, climate and surface hydrology. *Malaria Journal*, *12*(1), 65. http://doi.org/10.1186/1475-2875-12-65

Wyse, A. P. P., Bevilacqua, L., & Rafikov, M. (2007). Simulating malaria model for different treatment intensities in a variable environment. *Ecological Modelling*, *206*(3–4), 322–330. http://doi.org/10.1016/j.ecolmodel.2007.03.038

Yang, H. M. (2000). Malaria transmission model for different levels of acquired immunity and temperature-dependent parameters (vector). *Revista de Saúde Pública*, *34*(3), 223–231. http://doi.org/10.1590/S0034-89102000000300003

Alonso, D., Bouma, M. J., & Pascual, M. (2011). Epidemic malaria and warmer temperatures in recent decades in an East African highland. *Proceedings of the Royal Society B: Biological Sciences*, *278*(1712), 1661–1669. http://doi.org/10.1098/rspb.2010.2020

Baeza, A., Bouma, M. J., Dhiman, R., & Pascual, M. (2014). Malaria control under unstable dynamics: Reactive vs. climate-based strategies. *Acta Tropica*, *129*(null), 42–51. http://doi.org/10.1016/j.actatropica.2013.04.001

Bernal-García, S., Díez-Echavarría, L., Arango-Aramburo, S., Suaza-Vasco, J., Uribe-Soto, S., Jaramillo, L., & Poveda, G. (2014). An Improved Mathematical Model of Malaria Incidence in Colombia. In *WCRP Conference for Latin America and the Caribbean: Developing, linking, and applying climate knowledge.* Montevideo: World Climate Research Programme. http://doi.org/10.13140/2.1.5192.6725

Bhadra, A., Ionides, E. L., Laneri, K., Pascual, M., Bouma, M., & Dhiman, R. C. (2011). Malaria in Northwest India: Data Analysis via Partially Observed Stochastic Differential Equation Models Driven by Lévy Noise. *Journal of the American Statistical Association*, *106*(494), 440–451. http://doi.org/10.1198/jasa.2011.ap10323

Ermert, V., Fink, A. H., Jones, A. E., & Morse, A. P. (2011a). Development of a new version of the Liverpool Malaria Model. I. Refining the parameter settings and mathematical formulation of basic processes based on a literature review. *Malaria Journal*, *10*(1), 35. http://doi.org/10.1186/1475-2875-10-35

Ermert, V., Fink, A. H., Jones, A. E., & Morse, A. P. (2011b). Development of a new version of the Liverpool Malaria Model. II. Calibration and validation for West Africa. *Malaria Journal*, *10*(1), 35. http://doi.org/10.1186/1475-2875-10-35

Hoshen, M. B., & Morse, A. P. (2004). A weather-driven model of malaria transmission. *Malaria Journal*, *3*(1), 32. Retrieved from http://www.malariajournal.com/content/3/1/32

Janssen, M. A., & Martens, W. J. M. (1997). Modeling malaria as a complex adaptive system. *Artificial Life*, *3*(3), 213–36. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/9385735

Laneri, K., Bhadra, A., Ionides, E. L., Bouma, M., Dhiman, R. C., Yadav, R. S., & Pascual, M. (2010). Forcing Versus Feedback: Epidemic Malaria and Monsoon Rains in Northwest India. *PLoS Computational Biology*, *6*(9), e1000898. http://doi.org/10.1371/journal.pcbi.1000898

Laneri, K., Paul, R. E., Tall, A., Faye, J., Diene-Sarr, F., Sokhna, C., … Rodó, X. (2015). Dynamical malaria models reveal how immunity buffers effect of climate variability. *Proceedings of the National Academy of Sciences of the United States of America*, *112*(28), 8786–91. http://doi.org/10.1073/pnas.1419047112

Lunde, T. M., Bayoh, M. N., & Lindtjørn, B. (2013). How malaria models relate temperature to malaria transmission. *Parasites & Vectors*, *6*(1), 20. http://doi.org/10.1186/1756-3305-6-20

Martens, W. J. M. (1997). *Health impacts of climate change and ozone depletion: an eco-epidemiological modelling approach..pdf*. Maastricht University.

Montosi, E., Manzoni, S., Porporato, A., & Montanari, A. (2012). An eco-hydrologic model of malaria outbreaks. *Hydrology and Earth System Sciences Discussions*, *9*(3), 2831–2854. http://doi.org/10.5194/hessd-9-2831-2012

Ngarakana-Gwasira, E. T., Bhunu, C. P., & Mashonjowa, E. (2014). Assessing the impact of temperature on malaria transmission dynamics. *Afrika Matematika*, *25*(4), 1095–1112. http://doi.org/10.1007/s13370-013-0178-y

Parham, P. E., & Michael, E. (2010). Modelling Climate Change and Malaria Transmission. In E. Michael & R. C. Spear (Eds.), *Modelling Parasite Transmission and Control* (Vol. 673, pp. 184–99). Landes Bioscience and Springer Science+Business Media. Retrieved from http://www.ncbi.nlm.nih.gov/pubmed/20632538

Rodríguez, D. J., Delgado, L., Ramos, S., Weinberger, V., & Rangel, Y. (2013). A model for the dynamics of malaria in Paria Peninsula, Sucre State, Venezuela. *Ecological Modelling*, *259*(0), 1–9. http://doi.org/http://dx.doi.org/10.1016/j.ecolmodel.2013.03.005

Roy, M., Bouma, M., Dhiman, R. C., & Pascual, M. (2015). Predictability of epidemic malaria under non-stationary conditions with process-based models combining epidemiological updates and climate variability. *Malaria Journal*, *14*(1), 419. http://doi.org/10.1186/s12936-015-0937-3

Roy, M., Bouma, M. J., Ionides, E. L., Dhiman, R. C., & Pascual, M. (2013). The Potential Elimination of Plasmodium vivax Malaria by Relapse Treatment: Insights from a Transmission Model and Surveillance Data from NW India. *PLoS Neglected Tropical Diseases*, *7*(1), e1979. http://doi.org/10.1371/journal.pntd.0001979

Ruiz, D. (2002). *Modelación de la interacción entomológica-climática de la transmisión de la malaria (Unpublished master thesis)*. Universidad Nacional de Colombia sede Medellín.

Ruiz, D., Poveda, G., Quiñones, M. L., Vélez, I. D., Rúa-Uribe, G., Rojas, W., & Zuluaga, J. S. (2002). Modelación sistémica para el diagnóstico de la interacción clima-malaria en Colombia. Aplicación durante El Niño 1997-98 y La Niña 1998-2000. *Meteorología Colombiana*, *5*, 41–48. Retrieved from http://ciencias.bogota.unal.edu.co/fileadmin/content/geociencias/revista\_meteorologia\_colombiana/numero05/05\_05.pdf

Ruiz, D., Poveda, G., Quiñones, M. L., Vélez, I. D., Rúa-Uribe, G., Rojas, W., & Zuluaga, J. S. (2003). Modelación de la interacción entomológica-climática de la transmisión de la malaria mediante dinámica de sistemas. *Revista Colombiana de Entomología*, *29*(2), 191–201. Retrieved from http://ref.scielo.org/58tjcv

Ruiz, D., Poveda, G., Vélez, I. D., Quiñones, M. L., Rúa-Uribe, G., Velásquez, L. E., & Zuluaga, J. S. (2006). Modelling entomological-climatic interactions of Plasmodium falciparum malaria transmission in two Colombian endemic-regions: contributions to a National Malaria Early Warning System. *Malaria Journal*, *5*(1), 66. http://doi.org/10.1186/1475-2875-5-66

Tompkins, A. M., & Ermert, V. (2013). A regional-scale, high resolution dynamical malaria model that accounts for population density, climate and surface hydrology. *Malaria Journal*, *12*(1), 65. http://doi.org/10.1186/1475-2875-12-65

Wyse, A. P. P., Bevilacqua, L., & Rafikov, M. (2007). Simulating malaria model for different treatment intensities in a variable environment. *Ecological Modelling*, *206*(3–4), 322–330. http://doi.org/10.1016/j.ecolmodel.2007.03.038

Yang, H. M. (2000). Malaria transmission model for different levels of acquired immunity and temperature-dependent parameters (vector). *Revista de Saúde Pública*, *34*(3), 223–231. http://doi.org/10.1590/S0034-89102000000300003