

# ISI publication record - Munir Hoffmann (on 2019-01-20)

## [YEAR 2019]

[27] Soler A.S, Vaast, P., **Hoffmann, M.P.**, Jassogne, L., van Asten, P., Roetter, R.P., Graefe, S. (2019) Water use of *Coffea arabica* in open versus shaded systems under smallholder's farm conditions in Eastern Uganda. *Agricultural and Forest Meteorology*: 266-267: 231-242 doi:10.1016/j.agrformet.2018.12.006

## [YEAR 2018]

[26] Abdulai, I., Vaast, P., **Hoffmann, M.P.**, Asare, R., Jassogne, L., Van Asten, P., Roetter, R.P., Graefe, S. (2018) Cocoa agroforestry is less resilient to sub-optimal and extreme climate than cocoa in full sun: Reply to Norgrove. *Global Change Biology* 24:e733-e740. doi: 10.1111/gcb.14044

[25] Abdulai, I., Vaast, P., **Hoffmann, M. P.**, Asare, R., Jassogne, L., Van Asten, P., Roetter, R.P., Graefe, S. (2018) Cocoa agroforestry is less resilient to climate extremes than cocoa in full sun. *Global Change Biology* 24: 273-286. doi: 10.1111/gcb.13885

[24] **Hoffmann, M.P.**, Isselstein, J., Roetter, R.P., Kayser, M. (2018) Nitrogen management in crop rotations after break-up of grassland: Insights from modelling. *Agriculture, Ecosystems & Environment* 259: 28-44. doi: 10.1016/j.agee.2018.02.009

[23] **Hoffmann, M.P.**, Odhiambo, J.J.O., Koch, M., Ayisi, K.K., Zhao, G., Soler, A.S., Roetter, R.P. (2018). Exploring adaptations of groundnut cropping to prevailing climate variability and extremes in Limpopo Province, South Africa. *Field Crops Research* 219: 1-13. doi: 10.1016/j.fcr.2018.01.019

[22] **Hoffmann, M.P.**, Haakana, M., Asseng, S., Hoehn, J. G., Palosuo, T., Ruiz-Ramos, M., Fronzek, S., Ewert, F., Gaiser, T., Kassie, B.T., Paff, K., Rezaei, E.E., Rodriguez, A., Semenov, M., Srivastava, A.K., Stratonovitch, P., Tao, F., Chen, Y., Roetter, R.P. (2018) How does inter-annual variability of attainable yield affect the magnitude of yield gaps for wheat and maize? An analysis at ten sites. *Agricultural Systems* 159: 199-208. doi: 10.1016/j.agsy.2017.03.012

[21] Montesino-San Martin, M., Wallach, D., Olesen, J.E., Challinor, A.J., **Hoffmann, M.P.**, Koehler, A.K., Roetter, R.P, Porter, J.R. (2018) Data requirements for crop modelling - applying the learning curve approach to simulate flowering time of winter wheat under climate change. *European Journal of Agronomy* 95: 33-44. doi: 10.1016/j.eja.2018.02.003

[20] Nelson, W., **Hoffmann, M.P.**, Vadez, V., Roetter, R.P., Whitbread, A.M. (2018) Testing pearl millet and cowpea intercropping systems as adaptation to high temperatures. *Field Crops Research* 217: 150-166. doi: 10.1016/j.fcr.2017.12.014

[19] Roetter, R.P., Appiah, M., Fichtler, E., Kersebaum, K.C., Trnka, M., **Hoffmann, M.P.** (2018) Linking modelling and experimentation to better capture crop impacts of agro-climatic extremes - a review. *Field Crops Research* 221: 142-156. doi: 10.1016/j.fcr.2018.02.023

[18] Roetter, R.P., **Hoffmann, M.P.**, Koch, M., Mueller, C. Progress in modelling agricultural impacts of and adaptations to climate change. *Current Opinion in Plant Biology* 45 PartB: 255-261. doi:10.1016/j.pbi.2018.05.009

[17] Swanepoel, C.M., Roetter, R.P., Van der Laan, M., Annandale, J.G., Beukes, D.J., Du Preez, C.C., Swanepoel, L.H., Van der Merwe, A., **Hoffmann, M.P.** (2018) The benefits of conservation agriculture on

soil organic carbon and yield in southern Africa are site-specific. *Soil & Tillage Research* 183: 72-82. doi: 10.1016/j.still.2018.05.016

[16] Tao, H.H., Donough, C., Gerendas, J., **Hoffmann, M.P.**, Cahyo, A. Sugianto, H., Wandri, R., Gatot Abdul Rahim, Fisher, M., Roetter, R.P., Dittert, K., Pardon, L., Oberthuer, T. (2018) Fertilizer management effects on oil palm yield and nutrient use efficiency on sandy soils with limited water supply in Central Kalimantan. *Nutrient Cycling in Agroecosystems* 112: 317-333. doi: 10.1007/s10705-018-9948-0

[15] Wallor, E., Kersebaum, K.C., Ventrella, D., Cammarano, D., Coucheney, E., Ferrise, R. Gaiser, T., Garofalo, P., Giglio, L., Giola, P., **Hoffmann, M.P.**, Lana, M., Lewan, E. Maharjan, G. Moriondo, M., Mula, L. Nendel, C., Pohankova, E., Roggero, P., Trnka, M., Trombi, G. (2018) The response of process-based agro-ecosystem models to within-field variability in site conditions. *Field Crops Research* 228: 1-19. doi: 10.1016/j.fcr.2018.08.021

#### [YEAR 2017]

[14] Akinseye, F., Adam, M., Agele, S.O., **Hoffmann, M.P.**, Traore, P.S., Whitbread, A. (2017) Assessing crop model improvements through comparison of sorghum (*sorghum bicolor* L. moench) simulation models: a case study of West African varieties. *Field Crops Research* 201:19-31. doi: 10.1016/j.fcr.2016.10.015

[13] Denmead, L., Darras, K., Clough, Y., Diaz, P., Grass, I., **Hoffmann, M.P.**, Nurdiansyah, F., Fardiansah, R., Tschardtke, T. (2017) The role of ants, birds and bats for ecosystem functions and yield in oil palm plantations. *Ecology* 98: 1945-1956. doi:10.1002/ecy.1882

[12] **Hoffmann, M.P.**, Llewellyn, R., Davoren, C.W., Whitbread, A.M. (2017) Assessing the potential for zone-specific management of cereals in low rainfall South-eastern Australia: Combining on-farm results and simulation analysis. *Journal of Agronomy and Crop Science* 203:14-28. doi: 10.1111/jac.12159

[11] **Hoffmann, M.P.**, Donough, C., Cook, S., Fisher, M., Lim, C., Lim, Y., Cock, J., Kam, S.P., Mohanaraj, S.N., Indrasuara, K., Tittinutchanon, P., Oberthuer, T. (2017) Yield gap analysis in oil palm: Framework development and application in commercial operations in Southeast Asia. *Agricultural Systems* 151:12-19. doi: 10.1016/j.agsy.2016.11.005

[10] Tao, H. H., Donough, C., **Hoffmann, M.P.**, Lim, Y.L., Hendra, S., Rahmadsyah, Abdurrohim, G., Indrasuara, K., Lubis, A., Dolong, T., Oberthuer, T. (2017) Effects of best management practices on dry matter production and fruit production efficiency of oil palm. *European Journal of Agronomy* 90:209-215. doi: 10.1016/j.eja.2017.07.008

[09] Whitbread, A.M, **Hoffmann, M.P.**, Davoren, C.W., Mowat, D., and Baldock, J. A. (2017) Measuring and modelling the water balance of low rainfall cropping systems. *Transactions of the ASABE* 60(6): 2097-2110. doi: 10.13031/trans.12581

[08] Yin X, Kersebaum KC, Kollas C, Manevski K, Baby S, Beaudoin N, Oezturk I, Gaiser T, Wu L, **Hoffmann M.P.**, Charfeddine M, Conradt T, Constantin J, Ewert F, Cortazar-Atauri IG, Giglio L, Hlavinka P, Hoffmann H, Launay M, Louarn G, Manderscheid R, Mary B, Mirschel W, Nendel C, Pacholski A, Palosuo T, Ripoche-Wachterl D, Roetter, Ruget F, Sharif B, Trnka M, Ventrella D, Weigel HJ, Olesen JE. (2017) Performance of process-based models for simulation of grain N in crop rotations across Europe *Agricultural Systems* 154: 63-77. doi: 10.1016/j.agsy.2017.03.005

[07] Yin X., Kersebaum K.C., Kollas C., Baby S., Beaudoin N., Manevski K., Palosuo T., Nendel C., Wu L., **Hoffmann M.P.**, Hoffmann H., Sharif B., Armas-Herrera C.M., Bindi M., Charfeddine M., Conradt T., Constantin J., Ewert F., Ferrise R., Gaiser T., Cortazar-Atauri I.G., Giglio L., Hlavinka P., Lana M., Launay M., Louarn G., Manderscheid R., Mirschel W., Moriondo M., Oeztuerk I., Pacholski A., Ripoche-Wachterl D., Roetter, R., Ruget F., Trnka M., Ventrella D., Weigel H.J. Olsen, J. (2017) Multi-model uncertainty analysis in predicting grain N for crop rotations in Europe. *European Journal of Agronomy* 84:152-165. doi: 10.1016/j.eja.2016.12.009

[YEAR 2016]

- [06] Euler, M., **Hoffmann, M.P.**, Fathoni, Z. Schwarze, S. (2016) Exploring yield gaps in small-holder oil palm production systems in eastern Sumatra, Indonesia. *Agricultural Systems* 146: 111-119. doi:10.1016/j.agsy.2016.04.007
- [05] Kersebaum, K., Kroes, J., Gobin, A., Takac, J., Hlavinka, P., Trnka, M., Ventrella, D., Giglio, L., Ferrise, R., Moriondo, M., Dalla Marta, A., Luo, Q., Eitzinger, J., Mirschel, W., Weigel, H.J., Manderscheid, R., **Hoffmann, M.P.**, Nejedlik, P., Iqbal, M.A., Hoesch, J. (2016) Assessing uncertainties of water footprints using an ensemble of crop growth models on winter wheat. *Water* 8 (12), 571. doi: 10.3390/w8120571
- [04] Zeng, W., Wu, J. **Hoffmann, M.P.**, Xu, C., Ma, T., Huang, J., (2016) Testing of the AP-SIM sunflower model on the saline soils of Inner Mongolia, China. *Field Crops Research* 192: 42-54. doi:10.1016/j.fcr.2016.04.013

[YEAR 2015]

- [03] **Hoffmann, M.P.**, Jacobs, A., Whitbread, A.M., (2015) Crop modelling based analysis of site-specific production limitations of winter oilseed rape in northern Germany. *Field Crops Research* 178: 49-62. doi:10.1016/j.fcr.2015.03.018
- [02] Kollas, C., Kersebaum, K., Nendel, C., Manevski, K., Mueller, C., Palosuo, T., Armas-Herrera, C., Beaudoin, N., Bindi, M., Charfeddine, M., Conradt, T., Constantin, J., Eitzinger, J., Ewert, F., Ferrise, R., Gaiser, T., Garcia, I., de Cortazar-Atauri, Giglio, L., Hlavinka P., Hoffmann, H., **Hoffmann, M.P.**, Launay, M., Manderscheid, R., Mary, B., Mirschel, W., Moriondo, M., Olesen, J., Oezturk, I., Pacholski, A., Ripoche-Wachter, D., Roggero, P., Roncossek S., Roetter, R., Ruget, F., Sharif, B., Trnka, M., Ventrella, D., Waha, K., Wegehenkel, M., Weigel, H.J., Wu, L., (2015) Crop rotation modelling - a European model intercomparison. *European Journal of Agronomy* 70: 98-111. doi:10.1016/j.eja.2015.06.007

[YEAR 2014]

- [01] **Hoffmann, M.P.**, Castaneda Vera, A., van Wijk, M.T., Giller, K.E., Oberthuer, T., Donough, C., Whitbread, A.M., (2014) Simulating potential growth and yield in oil palm (*Elaeis guineensis*) with PALMSIM: Model description, evaluation and application. *Agricultural Systems* 131: 1-10. doi:10.1016/j.agsy.2014.07.006