

Appendix to technical report

List of CCAFS Publications in 2011

Journal Articles

Badu-Apraku, B. and Akinwale, R. 2011. Identification of early-maturing maize inbred lines based on multiple traits under drought and low N environments for hybrid development and population improvement. *Canadian Journal of Plant Science* 91(5), 931-942.

Badu-Apraku, B., Fakorede, M., Oyekunle, M. and Akinwale, R. 2011. Selection of extra-early maize inbreds under low N and drought at flowering and grain-filling for hybrid production. *Maydica* 56, 29-41.

Bellon, M.R., D. Hodson and J. Hellin. 2011. Assessing the vulnerability of traditional maize seed systems in Mexico to climate change. *Proceedings of the National Academy of Sciences* 108 (33), 13432-13437.

Blandon-Diaz, J. U., Forbes, G. A., Andrade-Piedra, J. L., & Yuen, J. E. 2011. Assessing the Adequacy of the Simulation Model LATEBLIGHT Under Nicaraguan Conditions. *Plant Disease*, 95(7), 839-846.

Boone, R. B., Galvin, K. A., BurnSilver, S. B., Thornton, P. K., Ojima, D. A., and Jawson, J. R. 2011. Using coupled simulation models to link pastoral decision making and ecosystem services. *Ecology and Society* 16(2), 6.

Buytaert, W., Cuesta-Camacho, F., Tobon, C. 2011. Potential impacts of climate change on the environmental services of humid tropical alpine regions. *Global Ecology and Biogeography* 20(1), 19-33.

Butare, L., Rao, I. M. Lepoivre, P., Polania, J., Cajiao, C., Cuasquer, J. B. and Beebe, S. 2011. New genetic sources of resistance in the genus *Phaseolus* to individual and combined aluminium toxicity and progressive soil drying stresses. *Euphytica* 181, 385-404.

Challinor, A. 2011. Forecasting Food. *Nature Climate Change* (1), 103-104.

Cooper, P.J.M., Coe, R., Stern, R.D. 2011. Assessing and addressing climate-induced risk in Sub-Saharan rainfed Agriculture: foreward to a special issue of Experimental Agriculture. *Experimental Agriculture* 47 (2), 179-184.

Cossani, C. M., Slafer, G.A., Savin, R., 2011. Do barley and wheat (bread and durum) differ in grain weight stability through seasons and water–nitrogen treatments in a Mediterranean location? *Field Crops Research* 121, 240–247.

Dawson, I.K., Vinceti, B., Weber, J.C., Neufeldt, H., Russell, J., Lengkeek, A.G., Kalinganire, A., Kindt, R., Lillesø, J-P.B., Roshetko, J., Jamnadass, R. 2011. Climate change and tree genetic resource management: maintaining and enhancing the productivity and value of smallholder agroforestry landscapes: a review. *Agroforestry Systems* 81(1), 67-78.

Dixit, P.N., Cooper, P.J.M., Dimes, J., and Rao, K.P.C., 2011. Adding value to field-based agronomic research through climate risk assessment: a case study of maize production in Kitale, Kenya. *Experimental Agriculture* 47 (2), 317-338.

Ford-Lloyd, B.V., Schmidt, M., Armstrong, S.J., Barazani, O., Engels, J., Hadas, R., Hammer, K., Kell, S.P., Kang, D., Khoshbakht, K., Li, Y., Long, C., Lu, B-R., Ma, K., Nguyen, V.T., Qiu, L., Ge, S., Wei, W., Zhang, Z., Maxted, N. 2011. Crop Wild Relatives—Undervalued, Underutilized and under Threat? *BioScience* 2011, 61(7), 559-565.

Garrett, K.A., Forbes, G.A., Savary, S., Skelsey, P., Sparks, A.H., Valdivia, C., van Bruggen, A.H.C., Willocquet, L., Djurle, A., Duveiller, E., Eckersten, H., Pande, S., Vera Cruz, C., Yuen, J. 2011. Complexity in climate-change impacts: an analytical framework for effects mediated by plant disease. *Plant Pathology* 60(1), 15-30.

Gathenya, M., Mwangi, H., Coe, R., Sang, J. 2011. Climate and land use induced risks to watershed services in the Nyando river basin, Kenya. *Experimental Agriculture* 47 (2), 339-356.

Hansen, J.W., Mason, S., Sun, L., Tall, A., 2011. Review of seasonal climate forecasting for agriculture in sub-Saharan Africa. *Experimental Agriculture* 47, 205-240.

Herrera-Campo, B., Hyman, G., Bellotti, A., 2011. Threats to cassava production: known and potential geographic distribution of four key biotic constraints. *Food Security* 3 (3), 329-345.

Herrero, M., Gerber, P., Vellinga, T., Garnett, T., Leip, A., Opio, C., Westhoek, H. J., Thornton, P. K., Olesen, J., Hutchings, N., Montgomery, H., Soussana, J-F., Steinfeld, H and McAllister T. 2011. Livestock and greenhouse gas emissions: the importance of getting the numbers right. *Animal Feed Science and Technology* 166, 779-782.

Hoeschle-Zeledon, I. 2011. Climate change and plant health. *R4D Review* 6, 6-11.

Huda, S., Victor Sadras, Wani, S.P., and Mei, Xurong. 2011. Food Security and Climate Change in the Asia-Pacific Region: Evaluating Mismatch between Crop Development and Water Availability. *International Journal for Bio-resource and Stress Management* 2 (2), 137-144.

Jagadish, S.V.K., Cairns, J.E., Kumar, A., Somayanda, I.M., Craufurd, P.Q. 2011. Does susceptibility to heat stress confound screening for drought tolerance in rice? *Functional Plant Biology* 38 (4), 261-269.

Jagadish, S.V.K., Muthurajan, R., Rang, Z.W., Malo, R., Heuer, S., Bennett, J., and Craufurd, P.Q. 2011. Spikelet proteomic response to combined water deficit and heat stress in rice (*Oryza sativa* cv. N22). *Rice* 4 (1), 1-11

Jarvis, A., Mulligan, M. 2011. The climate of cloud forests. *Hydrological Processes* 25(3), 327-343.

Jarvis, A., Lau, C., Cook, S.E., Wollenberg, E., Hansen, J., Bonilla, O., Challinor, A. 2011. An integrated adaptation and mitigation framework for developing agricultural research: synergies and trade-offs. *Experimental Agriculture* 47, 185-203.

Jiménez, D., Cock, J., Jarvis, A., García, J., Satizábal, H.F., Van Damme, P., Pérez Uribe, A., Barreto Sáenz, M.A. 2011. Interpretation of commercial production information: a case study of lulo (*Solanum quitoense*), an under-researched Andean fruit. *Agricultural Systems* 104(3), 258-270.

- Kakaï, R.G., Akpona, T.J.D., Assogbadjo, A.E., Gaoué, O.G., Chakeredza, S., Gnanglè, P.C., Mensah, G.A., Sinsin, B. 2011. Ecological adaptation of the shea butter tree (*Vitellaria paradoxa* C.F. Gaertn.) along climatic gradient in Bénin, West Africa. *African Journal of Ecology* 49 (4) p. 440-449.
- Kalame, F.B., Aidoo, R., Nkem, J., Ajayi, O.C., Kanninen, M., Luukkanen, O., Idinoba, M. 2011. Modified taungya system in Ghana: a win-win practice for forestry and adaptation to climate change? *Environmental Science and Policy* 14 (5), 519-530.
- Kesava Rao, A.V.R. and Wani, S.P. 2011. Evapotranspiration paradox at a semi-arid location in India. *Journal of Agrometeorology*. 13(1), 3-8.
- Kromann, P. 2011. Use of the Environmental Impact Quotient to Estimate Health and Environmental Impacts of Pesticide Usage in Peruvian and Ecuadorian Potato Production. *Journal of Environmental Protection*, 02(05), 581-591.
- Kumar, N.S., Aggarwal, P.K., Swaroopa Rani, Jain, S., Saxena, R., Chauhan, N. 2011. Impact of climate change on crop productivity in Western Ghats, coastal and northeastern regions of India. *Current Science*. 101(3), 332-341.
- Legay, S., Lefevre, I., Lamoureux, D., Barreda, C., Tincopa Luz, R., Gutierrez, R., Quiroz, R., Hoffman, L., Hausman, J.F., Bonierbale, M., Evers, D, Schafleitner, R. 2011. Carbohydrate metabolism and cell protection mechanisms differentiate drought tolerance and sensitivity in advanced potato clones (*Solanum tuberosum* L.). *Functional and Integrative Genomics* 11(2), 275-291.
- Lopes, M. and Reynolds, M.P. 2011. Drought Adaptive Traits and Wide Adaptation in Elite Lines Derived from Resynthesized Hexaploid Wheat. *Crop Science* 51(4), 1617-1621.
- Luedeling, E., Steinmann, K.P., Zhang, M., Brown, P.H., Grant, J., Girvetz, E.H. 2011. Climate change effects on walnut pests in California. *Global Change Biology* 17(1), 228-238.
- Luedeling, E. 2011. Adapt now to climate change. *Food Technology* 65 (9), 120.
- Luedeling, E., Girvetz, E.H., Semenov, M.A., Brown, P.H. 2011. Climate change affects winter chill for temperate fruit and nut trees. *Plos One* 6 (5) 1-13
- Mapanda, F., Wuta, M., Nyamangara, J., and Rees, R.M. 2011. Effects of organic and mineral fertilizer nitrogen on greenhouse gas emissions and plant-captured carbon under maize cropping in Zimbabwe. *Plant and Soil*, 343 (1), 67-81
- Meseka, S. K., Menkir, A. and Ajala, S. 2011. Genetic analysis of performance of maize inbred lines under drought stress, in: *Journal of Crop Improvement* 25 (5), 521-539.
- Mulligan, M., Fisher, M., Sharma, B., Xu, Z.X. Ringler, C., Mahé, G., Jarvis, A., Ramírez, J., Clanet, J.C., Ogilvie, A., Ahmad, M. 2011. The nature and impact of climate change in the challenge program on water and food (CPWF) basins. *Water International* 36 (1), 96-124.

- Muranaka, S., Fatokun, C. and Boukar, O. 2011. Stability of *Striga gesnerioides* resistance mechanism in cowpea under high- infestation level, low soil fertility and drought stresses. *Journal of Food, Agriculture and Environment* 9 (2), 313-318.
- McClean, P. E., Burrridge, J., Beebe, S., Rao, I.M. and Porch, T.G. 2011. Crop improvement in the era of climate change: An integrated multi-disciplinary approach for common bean (*Phaseolus vulgaris* L.). *Functional Plant Biology* 38, 927-933.
- Misiko, M., Tiftonnell, P., Giller, K.E., Richards, P. 2011. Strengthening understanding and perceptions of mineral fertilizer use among smallholder farmers: evidence from collective trials in western Kenya. *Agriculture and Human Values*. 28(1), 27-38.
- Moebius-Clune, B.N, van Es, H.M, Idowu O.J, Schindelbeck R.R., Kimetu, J.M., Ngoze, S., Lehmann, J., Kinyangi, J.M. 2011. Long-term soil quality degradation along a cultivation chronosequence in western Kenya. *Agriculture, Ecosystems & Environment* 141(1–2), 86-99
- Negra, C. and Wollenberg, E. 2011. Lessons from Reducing Emissions from Deforestation and Degradation: Advancing agriculture in the UN Framework Convention on Climate Change. *Carbon Management*. 2(2): 161–173.
- Nyberg, G., Bargués Tobella, A., Kinyangi, J., and Ilstedt, U. 2011. Patterns of water infiltration and soil degradation over a 120-yr chronosequence from forest to agriculture in western Kenya. *Hydrology and Earth System Sciences Discussions* 8, 6993-7015.
- Pascual, U., Narloch, U., Nordhagen, S. and Drucker, A. G. 2011. The economics of agrobiodiversity conservation for food security under climate change. *Economía Agraria y Recursos Naturales*. 11 (1), 191-220.
- Prins, A., Mukubi, J.M., Pellny, T.K., Verrier, P.J., Beyene, G., Lopes, M.S., Emami, K., Treumann, A., Lelarge-Trouverie, C., Noctor, G., Kunert, K., Foyer, C.H. 2011. The responses of maize leaves to elevated CO₂: acclimation and signalling. *Plant Cell and Environment* 34, 314-331.
- Quiroz, R., Yarlequé, C., Posadas, A., Mares, V., Immerzeel, W.W. 2011. Improving daily rainfall estimation from NDVI using wavelet transform. *Environmental Modelling & Software*, 26(2), 201-209.
- Rao, K.P.C., Ndegwa, K., Kizito W.G., and Oyoo, A. 2011. Climate variability and change: Farmer perceptions and understanding of intra-seasonal variability in rainfall and associated risk in semi-arid Kenya. *Experimental Agriculture* 47, 1-25
- Rana, R.K., Sharma, N., Kadian, M.S., Girish, B.H., Arya, S., Campilan, D., Pandey, S.K., Carli, C., Patel, N.H., Singh, B.P. 2011. Perception of Gujarat farmers on heat-tolerant potato varieties. *Potato Journal*, 38(2), 121-29.
- Savary, S., Nelson, A., Sparks, A.H., Willocquet, L., Duveiller, E., Mahuku, G., Forbes, G., Garrett, K.A., Hodson, D., Padgham, J., Pande, S., Sharma, M., Yuen, J., Djurle, A. 2011. International agricultural research tackling the effects of global and climate changes on plant diseases in the developing world. *Plant Disease* 95(10), 1204-1216.

- Segnini, A., Posadas, A., Quiroz, R., Milori, D.M.B.P., Vaz, C.M.P., Neto, L.M. 2011. Soil carbon stocks and stability across an altitudinal gradient in southern Peru. *Journal of Soil and Water Conservation* 66(4), 213-220.
- Sharma, N., Kumar, P., Kadian, M.S., Pandey, S.K., Singh, S.V., Luthra, S.K. 2011. Performance of potato (*Solanum tuberosum*) clones under water stress. *The Indian Journal of Agricultural Sciences*. 81(9), 39-43.
- Shiday, B.M.A., Nkunika, P.O.Y., Sileshi, G.W., French, J.R.J., Nyeko, P., Jain, S. 2011. Potential impact of climate change on termite distribution in Africa. *British Journal of Environment and Climate Change* 1 (4), 172-189.
- Simon, R., Fuentes, A.F., Spooner, D.M. 2011. Biogeographic implications of the striking discovery of a 4,000 kilometer disjunct population of the wild potato *Solanum morelliforme* in South America. *Systematic Botany* 36(4), 1062-1067.
- Solomon, D., J. Lehmann, K. Knoth de Zarruk, J. Dathe, J. Kinyangi, B. Liang and S. Machado. 2011. Speciation and long- and short-term molecular-level dynamics of soil organic sulfur studied by X-ray absorption near-edge structure spectroscopy. *Journal of Environmental Quality* 40(2), 704-718.
- Sommer, C., Zucca, A., Grainger, M., Cherlet, R., Zougmore, Y., Sokona, J., Hill, R., Della Peruta, J., Roehrig and Wang, G. 2011. Application of indicator systems for monitoring and assessment of desertification from national to global scales. *Land Degradation and Development* 22, 184-197.
- Sparks, A.H., Forbes, G.A., Hijmans, R.J., Garrett, K.A. 2011. A metamodeling framework for extending the application domain of process-based ecological models. *Ecosphere* 2(8), 14 p
- Thornton, P.K., Jones, P. G., Ericksen, P. J., Challinor, A. J. 2011. Agriculture and food systems in sub-Saharan Africa in a four-plus degree world. *Philosophical Transactions of the Royal Society Series A* 369, 117-136.
- Van Asten, P., Fermont, A., Taulya, G. 2011. Drought is a major yield loss factor for rainfed East African highland banana. *Agricultural Water Management* 98 (4): 541 – 552
- Varshney, R.K., Bansal, K.C., Aggarwal, P.K., Datta, S.K., Craufurd, P.Q. 2011. Agricultural biotechnology for crop improvement in a variable climate: hope or hype? *Trends in Plant Science* 16, 363-371.
- Verhulst, N., Sayre, K.D., Vargas, M., Crossa, J., Deckers, J., Raes, D., Govaerts, B. 2011. Wheat yield and tillage-straw management system × year interaction explained by climatic co-variables for an irrigated bed planting system in northwestern Mexico. *Field Crops Research*, 124, 347-356.
- Verhulst, N., Nelissen, V., Jespers, N., Haven, H., Sayre, K.D., Raes, D., Deckers, J. Govaerts, B., 2011. Soil water content, maize yield and its stability as affected by tillage and crop residue management in rainfed semi-arid highlands. *Plant and Soil* 344: 73-85.
- Vermeulen, S. and Wollenberg, E. 2011. Benefits of tropical crops for food security. *Proceedings of the National Academy of Sciences*. 108(9), E30.

Vogt, J.V., Safriel, U., Von Maltitz, V., Sokona, Y., Zougmore, R., Bastin, G., and Hill, J. 2011. Monitoring and assessment of land degradation and desertification: towards new conceptual and integrated approaches. *Land Degradation Development* 22, 150-165.

Wang, S.P., Wilkes, A., Zhang, Z.C., Chang, X.F., Lang, R., Wang, Y.F., Niu, H.S. 2011. Effects of management and land use change on soil carbon in China's grasslands. *Agriculture, Ecosystems & Environment* 142(3-4), 329-340

Journal article count: 65

Books

Yadav, S.S., Hatfield, J.L., Redden, R., Lotze-Campen, H., Hall, A. (Eds). 2011. *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom. 632 p.

Wollenberg E., Nihart A., Tapio-Biström, M-L, Grieg-Gran, M., (Eds). 2011. *Climate Change Mitigation and Agriculture*. Earthscan from Routledge, London, United Kingdom. 419 p.

van Noordwijk, M., Hoang, M.H., Neufeldt, H., Öborn, I., Yatich, T (Eds). 2011. *How trees and people can co-adapt to climate change: reducing vulnerability through multifunctional agroforestry landscapes*. World Agroforestry Centre (ICRAF), Nairobi, Kenya. 133 p.

Books count: 3

Book chapters

Beebe, S., Ramirez, J., Jarvis, A., Rao, I.M., Mosquera, G., Blair, M., and Bueno, J.M, 2011. Common Beans and the Challenges of Climate Change, in: Yadav, S., Redden, B. Hattfield, J.L., Lotze-Campen, H. and Hall, A. (Eds.), *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom, pp.356-369.

Bhattacharjee, R., Ntare, B. R., Otoo, E. and Yanda, P. Z, 2011. Regional impacts of climate change: Africa, in: Yadav, S.S., Hatfield, J.L., Redden, R., Lotze-Campen, H. and Hall, A (Eds.), *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom, pp. 66-77.

Ceballos, H., Ramirez, J., Belloti, A.C., Jarvis, A., and Alvarez, E., 2011. Adaptation of Cassava to Changing Climates, in: Yadav, S., Redden, B. Hattfield, J.L., Lotze-Campen, H. and Hall, A. (Eds.), *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom, pp. 411-425.

Craufurd, P.Q., Jagadish, S.V.K., and Padgham, J. 2011. Impacts of climate change on rainfed agriculture and adaptation strategies to improve livelihoods, in: Wani, S.P., Rockstrom, J., Sahrawat, K.L., (Eds), *Integrated Watershed Management in Rainfed Agriculture*, CRC Press, Leiden, Netherlands, pp. 421-440.

De Pinto, A., Maghalaes, M., Ringler, C., 2011. Economic Challenges Facing Agricultural Access to Carbon Markets, in: Wollenberg, E., Nihart, A., Tapio-Biström, M-L and Grieg Gran, M. (Eds), 2011. *Climate Change Mitigation and Agriculture*. Earthscan from Routledge, London, United Kingdom, pp. 61-68.

Gockowski, J. and Van Asten, P., 2011. Agricultural Intensification as a Climate Mitigation and Food Security Strategy for Sub-Saharan Africa, in: Wollenberg, E., Tapio-Bistrom, M-L., Nihart, A. and Grieg-Gran, M. (Eds).

Climate Change Mitigation and Agriculture. Earthscan from Routledge, London, United Kingdom, pp. 382-390.

Halewood, M. 2011. Options for governing the microbial commons. In P. F. Uhler (Ed.), *Designing the Microbial Research Commons: Proceedings of an International Workshop*. (pp. 191-200). Washington: National Academy of Science. http://www.nap.edu/openbook.php?record_id=13245&page=191

Herrero M, MacMillan S, Johnson N, Ericksen P, Duncan A, Grace D, and Thornton P. K. 2011. Improving Food Production from livestock, in: *State of the World 2011: Innovations that Nourish the Planet*. Worldwatch Institute, Washington DC, USA., pp. 155-163.

Herrero, M., Thornton, PK, Havlík, P. and Rufino, M., 2011. Livestock and greenhouse gas emissions: mitigation options and trade-offs. In: Wollenberg, E., Nihart, A., Tapio-Bistrom, M.L., and Grieg-Gran, M. (Eds), *Climate Change Mitigation and Agriculture*. Earthscan from Routledge, London, UK, pp. 316-332.

Jamnadas, R., Gebrekirstos, A., Neufeldt, H., Muthuri, C., Dawson, I., Kindt, R., Nyberg, Y., Dietz, J., Bayala, J., Kuyah, S., Ong, C.K., Montes, C., Weber, J., Hairiah, K., van Noordwijk, M., 2011. Trees as providers of environmental services in multifunctional landscapes are vulnerable to climate change, in: van Noordwijk M., Hoang, M.H., Neufeldt, H., Oborn, I. and Yatich, T. (Eds). *How trees and people can co-adapt to climate change: reducing vulnerability through multifunctional agroforestry landscapes*. World Agroforestry Centre (ICRAF), Nairobi, Kenya, pp. 63-77.

Jarvis, A., Ramirez, J., Bonilla-Findji, O., and Zapata, E, 2011. Impacts of Climate Change on Crop Production in Latin America, Chapter 3.1, in Yadav, S.S., Hatfield, J.L., Redden, R., Lotze-Campen, H. and Hall, A.(Eds.), *Crop Adaptation to Climate Change*, Wiley-Blackwell, Oxford, United Kingdom, pp 44-56.

Laderach P., Lundy M., Jarvis A., Ramirez J., Perez-Portilla, E, Schepp, K. and Eitzinger, A., 2011. Predicted Impact of Climate change on Coffee Supply Chains, in: W.L. Filho, W.L. (Ed.), *The Economic, Social and Political Elements of Climate Change*. Springer, Heidelberg, Germany, pp. 703–723.

Lopes M and Foyer C., 2011. The impact of high CO₂ on plant abiotic stress tolerance, in: Araus, J.L. and Slafer, G. (Eds.) *Crop Stress Management and Global Climate Change*. CABI, Wallingford, United Kingdom, pp. 85-104.

Nicol, J.M., Turner S.J, Coyne, D.L., den Nijs, L., Hockland, S. & Tahna Maafi, Z. 2011. Current nematode threats to world agriculture, in: Jones, J., Gheysen, G. and C. Fenoll, C. (Eds), *Genomics and Molecular Genetics of Plant-Nematode Interactions*. Springer, Heidelberg, Germany, pp. 21-43.

Padulosi, S., Heywood,V., Hunter, D., and Jarvis, A., 2011. Underutilized Species and Climate Change: Current Status and Outlook, in: Yadav, S., Redden, B. Hattfield, J.L., Lotze-Campen, H. and Hall, A. (Eds.), *Crop Adaptation to Climate Change*, Wiley-Blackwell, Oxford, United Kingdom, pp. 507-521.

Ramirez, J., Jarvis, A., Van den Bergh, I., Staver, C. and Turner, D., 2011. Changing climates: Effects on growing conditions for banana and plantain (*Musa* spp.) and possible responses, in: Yadav, S.S., Redden, R., Lotze-Campen, H., and Hall, A. (Eds.), *Crop Adaptation to Climate Change*, Wiley-Blackwell, Oxford, United Kingdom, pp. 426-438.

Schaeffleitner, R., Ramirez, J., Jarvis, A., Evers, D., Gutierrez, R., and Scurrah, M, 2011. Adaptation of the Potato Crop to Changing Climates, in: Yadav, S.S., Redden, B. Hattfield, J.L., Lotze-Campen, H. and Hall, A. (Eds.), *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom, pp. 287-297.

Snook, L., Dulloo, M.E., Jarvis, A., Scheldeman, X., Kneller, M., 2011. Crop Germplasm Diversity - the Role of Gene Bank Collections in Facilitating Adaptation to Climate Change, in Yadav, S.S., Redden, R.J., Hatfield, J.L., Lotze-Campen, H., and Hall, A. (Eds). *Crop Adaptation to Climate Change*. Wiley-Blackwell, Oxford, United Kingdom, pp. 495-506.

Xu, J., 2011. Climate change in the Asian highlands: socio-economic implications for the Mekong Region. In: Lazarus K, Badenoch N, Dao N and Resurreccion BP (Eds.). *Water rights and social justice in the Mekong Region*. Earthscan, London, United kingdom, pp. 197-216.

Xu, J., 2011, The impact of climate change on water resources and local livelihood in the Asian highlands. In: Rayanakorn, K. (Ed.) *Climate Change Challenges in the Mekong Region*. World Agroforestry Centre (ICRAF), Chiang Mai, Thailand p. 9-33.

Xu, J., Daniel, R, 2011. Linking climate change risks and rights of upland peoples in the Mekong, in: Lazarus, K., Badenoch, N., Dao, N., and Resurreccion, B.P. (Eds.). *Water Rights and Social Justice in the Mekong Region*. London: Earthscan p. 217-244.

Yatich, Y., Swallow, B., Ajayi, O.C., Minang P., Wakhayanga, J, 2011. Community-based adaptation to climate change in Africa: a typology of information and institutional requirements for promoting uptake of existing adaptation technologies, in: Chidumayo, E., Okali, D., Kowero, G and Larwanou M (Eds.), *Climate Change and African Forest and Wildlife Resources*. African Forest Forum, Nairobi, Kenya, Gävle, Sweden pp. 161 - 175.

Zhang, L., Yi, H., Renfu, L., Wang, J., Xu, J., 2011. The impact of climate change on agriculture and adaptation in China. In: Rayanakorn, K., (Ed). *Climate Change Challenges in the Mekong region*. World Agroforestry Centre (ICRAF), Chiang Mai, Thailand pp. 77-109.

Book chapters count: 24

CCAFS Policy Briefs

Kissinger G. 2011. Linking forests and food production in the REDD+ context. CCAFS Policy Brief No 3. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/resources/reports-and-policy-briefs#PB>

Negra, C. and Wollenberg, E. 2011. Lessons from REDD+ for Agriculture. CCAFS Policy Brief no. 1. CGIAR Research Program, Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/resources/reports-and-policy-briefs#PB>

Wollenberg, E., Campbell, M. B., Holmgren, P., Seymour, F., Sibanda, L., and von Braun, J. 2011. Actions needed to halt deforestation and promote climate-smart agriculture. CCAFS Policy Brief No. 4. CGIAR

Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark.
Available at: <http://ccafs.cgiar.org/resources/reports-and-policy-briefs#PB>

Wollenberg, E., and Negra, C. 2011. Next Steps for Climate Change Mitigation in Agriculture. CCAFS Policy Brief No. 2. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/resources/reports-and-policy-briefs#PB>

CCAFS Policy Briefs Count: 4

Other Policy Briefs

Davis, A. and Méndez, V.E. 2011. Prioritizing food security and livelihoods in climate change mitigation mechanisms: Experiences and opportunities in smallholder coffee agroforestry forest communities and REDD+. Policy Brief. Salvadoran Research Program on Development and Environment (PRISMA), San Salvador, El Salvador. Available online:
http://ccafs.cgiar.org/sites/default/files/assets/docs/davisavemendez_prioritizingfoodsecclimatemitigationcoffeeredd_prisma11.pdf

Hansen, J.W., Coffey, K., 2011. Policy brief: Agro-climate tools for a new climate-smart agriculture. International Research Institute for Climate and Society (IRI), Columbia University, New York, USA. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/iri_agro-climate_tools_brief-web.pdf

Hellmuth M.E., Mason S.J., Vaughan C., van Aalst M.K. and Choularton R. (eds), 2011. A Better Climate for Disaster Risk Management. International Research Institute for Climate and Society (IRI), Columbia University, New York, USA. Available at:
<http://ccafs.cgiar.org/sites/default/files/assets/docs/csp3policybrief.pdf>

Improving carbon initiatives aimed at smallholders: Addressing opportunities and challenges through better communication. World Agroforestry Center (ICRAF), Nairobi, Kenya. Available at:
http://ccafs.cgiar.org/sites/default/files/assets/docs/iri_agro-climate_tools_brief-web.pdf

Janudianto., Mulyoutami, E., Joshi, L., Wardell, D.A., van Noordwijk, M., 2011. Recognizing traditional tree tenure as part of conservation and REDD+ strategy. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available at: http://www.asb.cgiar.org/PDFwebdocs/ASB_PB22.pdf

Jarvis, A., Méndez, E. 2011. Prioritizing food security and livelihoods in climate change mitigation mechanisms: experiences and opportunities for smallholder coffee agroforestry, forest communities and REDD+. Centro Internacional de Agricultura Tropical (CIAT), Prisma, San Salvador, El Salvador. Available at: http://www.prisma.org.sv/uploads/media/PSA_CC.pdf

Kangire, A., van Asten, P., Verhagen, J., Koomen, I. 2011. Towards climate smart agriculture: lessons from a coffee × banana case. Experiences from research for policy support in Uganda. Wageningen University, Wageningen, Netherlands. Available at:
http://portals.wi.wur.nl/files/docs/Policybrief_coffeexbanana_climate_2012.pdf

Kristjanson, P., Tapio-Bistrom, M.L., Lambrou, Y., 2011. New research and training materials on Gender and Climate Change Research in Agriculture and Food Security for Rural Development. The CGIAR Research program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available at: <http://www.fao.org/docrep/015/md280e/md280e.pdf>

Lau, C.; Jarvis, A.; Ramírez, J. 2011. Colombian agriculture: adapting to climate change= Agricultura Colombiana: adaptación al cambio climático. Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia. Available at: http://www.ciat.cgiar.org/Newsroom/Documents/policy_brief1_colombia_climate_change.pdf

Lee, D. (Ed), 2011. Agriculture and Climate Change Policy Brief: Main Issues for the UNFCCC and Beyond. Adapted from "Agriculture and Climate Change: A Scoping Report" by Campbell, B., Mann, W., Meléndez-Ortiz, R., Streck, C., Tennigkeit, T. and Vermeulen, S. Meridian Institute, Washington, USA. Available at: http://ccaafs.cgiar.org/sites/default/files/assets/docs/accpolicy_english.pdf

Meyfroidt, P., van Noordwijk, M., Minang, P.A., Dewi, S., Lambin, E.F., 2011 Drivers and consequences of tropical forest transitions: options to bypass land degradation? ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available at: http://www.asb.cgiar.org/PDFwebdocs/ASB_PB_25.pdf

Minang, P.A., Bernard, F., van Noordwijk, M., Kahurani, E., 2011 Agroforestry in REDD+: Opportunities and Challenges. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available at: http://www.asb.cgiar.org/PDFwebdocs/ASB_PB26.pdf

Neely, C. 2011. Increasing Agriculture's Climate Smartness. Food and Agriculture Organization of the United Nations (FAO). Available at: <http://www.fao.org/climatechange/29829-092bc24a78d8c3a5ffc520d40f3fe630a.pdf>

Neufeldt, H., Kristjanson, P., Thorlakson, T., Gassner, A., Norton-Griffiths, M., Place, F., Langford, K. 2011. Making climate-smart agriculture work for the poor. ICRAF Policy Brief No 12. World Agroforestry Centre (ICRAF), Nairobi, Kenya. Available at: <http://www.worldagroforestry.org/downloads/publications/PDFs/BR11267.PDF>

Robiglio, V., Minang, P.A., Asare, R. 2011. On-farm timber production for emission reduction with sustainable benefits at the tropical forest margins. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available at: http://www.asb.cgiar.org/PDFwebdocs/ASB_PB23.pdf

Santos-Martin, F., Bertomeu, M., van Noordwijk, M., Navarro, R. 2011. Why smallholders plant native timber trees away from the forest margin : Lessons from Leyte, the Philippines. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya Available at: http://www.asb.cgiar.org/PDFwebdocs/ASB_PB24.pdf

South Africa Department of Agriculture, Forest and Fisheries and African Union. 2011. Opportunities and Challenges for Climate-Smart Agriculture in Africa. Available at: http://ccaafs.cgiar.org/sites/default/files/assets/docs/au_policybrief_opportunitieschallenges.pdf

Tata, H.L., Widayati, A., Mulyoutami, E., van Noordwijk, M. 2011. Co-existence of people and orangutan in Sumatra -Stabilising gradients for landscape multifunctionality. ASB Partnership for the Tropical Forest Margins, Nairobi, Kenya. Available at: <http://www.asb.cgiar.org/PDFwebdocs/PolicyBrief%2020.pdf>

CCAFS Working Papers

Barbier, E.B. and Tesfaw, A.T. 2011. Overcoming tenurial constraints to carbon forestry projects in Africa. CCAFS Working Paper no. 10. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-10-overcoming-tenurial-constraints-to-carbon-forestry-projects-in-africa.pdf>

Börner J, Wunder S, Wertz-Kanounnikoff S, Hyman G, Nascimento N. 2011. REDD sticks and carrots in the Brazilian Amazon: Assessing costs and livelihood implications. CCAFS Working Paper no. 8. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-08-redd-sticks-and-carrots-in-the-brazilian-amazon-v3.pdf>

Cohn A, Bowman M, Zilberman D, O'Neill K. 2011. The Viability of Cattle Ranching Intensification in Brazil as a Strategy to Spare Land and Mitigate Greenhouse Gas Emissions. CCAFS Working Paper no. 11. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-11-the-viability-of-cattle-ranching-intensification.pdf>

Fox J, Castella J-C, Ziegler AD. 2011. Swidden, Rubber and Carbon: Can REDD+ work for people and the environment in Montane Mainland Southeast Asia? CCAFS Working Paper no. 9. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-09-swidden-rubber-and-carbon.pdf>

Havemann, T. 2011. Financing mitigation in smallholder agricultural systems: Issues and Opportunities. CCAFS Working Paper no. 6. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-06-financing-smallholder-mitigation.pdf>

Kadi, M., Njau Njogu, L., Mwikya, J., Kamga, A. 2011. The State of Climate Information Services for Agriculture and Food Security in East African Countries. CCAFS Working Paper No 5. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-05-clim-info-eastafrika.pdf>

Kadi, M., Njau Njogu, L., Mwikya, J., Kamga, A. 2011. The State of Climate Information Services for Agriculture and Food Security in West African Countries. CCAFS Working Paper no. 4. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs-wp-04-clim-info-westafrica.pdf>

Kissinger G. 2011. Linking forests and food production in the REDD+ context. CCAFS Working Paper no. 1. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/gkissinger_linking_forests_food_redd_final-web.pdf

Milori, D.M.P.B., Segnini, A., da Silva, W.T.L., Posadas, A., Mares, V., Quiroz, R., Martin-Neto, L. 2011. Emerging techniques for soil carbon measurements. CCAFS Working Paper no. 2. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccaafs.cgiar.org/sites/default/files/assets/docs/ccaafs-wp-02-soil_carbon_measurement.pdf

Olander L, Reed D, Malin D, Haugen-Kozyra K. 2011. A model for building collaborative actions and common understanding on agricultural GHG mitigation: C-AGG, T-AGG and M-AGG. CCAFS Working Paper no. 3. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccaafs.cgiar.org/sites/default/files/assets/docs/ccaafs-wp-03-c-agg_t-agg_m-agg.pdf

Ramírez, J., Lau, C., Köhler, A.-K., Signer, J., Jarvis, A., Arnell, N., Osborne, T., Hooker, J. 2011. Finding tomorrow's agriculture today. CCAFS Working Paper No. 12. Cali, Colombia: CGIAR Research Program on climate Change, Agriculture and Food Security (CCAFS). Available at: <http://ccaafs.cgiar.org/sites/default/files/assets/docs/ccaafs-wp-12-climate-analogues-web.pdf>

Robinson BE, Holland MB, Naughton-Treves L. 2011. Does secure land tenure save forests? A review of the relationship between land tenure and tropical deforestation. CCAFS Working Paper no. 7. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccaafs.cgiar.org/sites/default/files/assets/docs/ccaafs-wp-07-does-secure-land-tenure-save-forests.pdf>

CCAFS Working Papers Count: 12

Other Working Papers

Adam, Myriam, Place, Frank, and Edmundo Barrios. 2011. Potential contributions of agroforestry for enhancement of models within the Global Futures project. Working Paper, ICRAF, IFPRI and CCAFS, Nairobi, Kenya.

Altchenko, Y., Awulachew, S.B., Brida, A.B., Diallo, H.A., Mogbante, D., Pavelic, P., Tindimugaya, C. And Villholth, K.G. 2011. Management of groundwater in Africa including transboundary aquifers: implications for food security, livelihood and climate change adaptation. United Nations Economic Commission for Africa, African Climate Policy Centre, Working Paper 6. Available at: http://www.uneca.org/acpc/about_acpc/policy_documents/papers/WP6-Groundwater%20final%20draft.pdf

Chaudhury, M., Ajayi, O.C., Hellin, J. and Neufeldt, H. 2011. Climate change adaptation and social protection in agroforestry systems: enhancing adaptive capacity and minimizing risk of drought in Zambia and Honduras. World Agroforestry Centre (ICRAF) Working paper no. 137. World Agroforestry Centre (ICRAF), Nairobi, Kenya. Available at: <http://www.worldagroforestry.org/downloads/publications/PDFs/WP11269.PDF>

Eguavoen, I., Derib, S.D., Deneke, T.T., McCartney, M., Otto, A. and Billa, S. 2011. Digging, damming or diverting? Small-scale irrigation in the Blue Nile, Ethiopia. Zentrum Für Entwicklungsforchung (ZEF) Working

Paper 84. University of Bonn, Bonn, Germany. Available at:
http://www.zef.de/fileadmin/media/news/274c_wp84.pdf

Erenstein, O., Kassie, G.T., Langyintuo, A., Mwangi, W., 2011. Characterization of Maize Producing Households in Drought Prone Regions of Eastern Africa. Socio-economics Working Paper 1. CIMMYT, Mexico, DF. Available at: <http://libcatalog.cimmyt.org/download/cim/95930.pdf>

Santos, I. V., Porro, N.M., Porro, R. 2011. Interventions to curb deforestation and stability in access to land: A comparative study between two land regulation modalities in the Transamazon region, Brazil. International Land Coalition, Rome, Italy. Available at:
http://www.landcoalition.org/sites/default/files/publication/1027/ICRAF-PARA_Brazil_web_14.03.11.pdf

Other Working Papers Count: 6

Conference Proceedings

Agrawal A, Persha L, Wollenberg E. 2011. Governance, institutions and incentives for climate change mitigation and livelihoods at the forest-farm interface. Paper presented at the 2011 Colorado Conference on Earth System Governance, 17–20. May 2011. Fort Collins, CO, USA.

Bonham, C. 2011. Climate Change and Policy: Access and use of agrobiodiversity in India. CRP7 Seminar, 9 May 2011. Bioversity International, Rome, Italy.

Campbell, B.M., Vermeulen, S., Hansen, J.W., Jarvis, A., Thornton, P., Wollenberg, E. 2011. How can we feed nine billion people while reducing GHG emissions? In: Proceedings of the Global conference on Global Warming 2011, 11-14 July 2011, Lisbon, Portugal.

CGIAR – FAO. 2011. Experiences of international institutions with the implementation of the agreements with the Governing Body under Article 15 of the Treaty, with particular reference to the use of the Standard Material Transfer Agreement for Annex I and non-Annex I crops. Fourth Session of the Governing Body of the International Treaty, Bali, Indonesia, 14-18 March 2011. Available at:
<http://www.planttreaty.org/sites/default/files/gb4i05e.pdf>

Dulloo, M.E., Van Zonnevald, M., Thormann, I., Drucker, A., Marandu, W., and Gaisberger. 2011. Seeds for Needs: Adaptation to climate change; Progress to date in Ethiopia. CRP7 Seminar 13 May 2011. Bioversity International, Rome, Italy.

Erenstein, O., Kassie, G.T., Mwangi, W., 2011. Comparative analysis of maize based livelihoods in drought prone regions of eastern Africa: Adaptation lessons for climate change. Conference: Increasing Agricultural Productivity & Enhancing Food Security in Africa: New Challenges and Opportunities, 1-3 November 2011, Africa Hall, UNECA, Addis Ababa, Ethiopia

Forkuor, G., McCartney, M.P. & Amisigo, B. 2011. Evaluating the implications of future water resources development under current and projected future climate in the Volta Basin. 3rd Ghana Water Forum, 5-7 September 2011, Accra, Ghana.

Havlík, P., Herrero, M., Mosnier, A., Obersteiner, M. Schmid, E., Fuss, S. And U.W. Schneider. 2011. Production system-based global livestock sector modelling: good news for the future. Paper presented at the 2011 European Association of Agricultural Economists Conference, August 30 to September 2, 2011, ETH Zurich, Zurich, Switzerland.

Jarvis, A., Ramirez, J., Castañeda, N., Guarino, L. 2011, The critical role of crop wild relatives in ensuring long-term food security and their need for conservation, XXIX Congreso Latinoamericano de química, September 2011, Cartagena, Colombia.

Jarvis, A. and J. Ramirez. 22 – 24 June 2011. Impactos e implicaciones del cambio climático para la banana en Latinoamérica y el Caribe. 1st International Latin American Congress on Banana and Plantain - Cambio Climático en el Sector Platanero y Bananero. Available upon request

Jassogne, L. , Nibasumba, A. , Wairegi, L.W.I. , Baret, P. , Deraeck, J. , Mukasa, D. , Wanyama, I. , Gatarayih, C. , Ghislaine, B. , Van Asten, P. 2011. Coffee-banana intercropping systems as an opportunity for smallholder coffee farmers. In: CIALCA conference 'Challenges and Opportunities for Agricultural Intensification of the Humid Highland Systems of Sub-Saharan Africa'. Kigali 24-27 October 2011. Book of Abstracts p.215.

Jat ML, Jat R K, Gupta Raj and Gopal Ravi. 2011. Conservation agriculture in cereal systems of South Asia: effect on crop productivity and carbon-based sustainability index. In: Resilient food systems for a changing world, Proceedings of the 5th World Congress of Conservation Agriculture Incorporating 3rd Farming Systems Design Conference, Brisbane Australia, 26-29 September, 2011, p 26-27.

Jat RK, Gopal R, Jat ML, Gupta, R, Singh, Y and Kumar, M. 2011. Productivity and carbon based sustainability index of maize under contrasting tillage practices for rice-maize production systems of eastern Indo-Gangetic plains. In: Addressing Climate Change effects and Meeting Maize Demand for Asia, Book of extended summaries for the eleventh Asian Maize Conference (Eds Zaidi et al), Nanning, China, November 7-11, 2011, p 386-387, CIMMYT, Mexico, D.F.

Jat SL, Parihar CM, Singh AK, Jat ML and Jat RK. 2011. Carbon sustainability and productivity of maize based cropping system under conservation agriculture practices in Indo- Gangetic plains. In: Resilient food systems for a changing world, Proceedings of the 5th World Congress of Conservation Agriculture Incorporating 3rd Farming Systems Design Conference, Brisbane Australia, 26-29 September, 2011, p 110-111.

Jat ML, Saharawat YS, Majumdar K and Gupta R. 2011. Precision-conservation agriculture practices for smallholder maize farming systems of South Asia. In: Addressing Climate Change effects and Meeting Maize Demand for Asia, Book of extended summaries for the eleventh Asian Maize Conference (Eds Zaidi et al), Nanning, China, November 7-11, 2011, p 370-372, CIMMYT, Mexico, D.F.

Kadian, M, S. Bonierbale, M.; Singh, S.V., Luthra, S.K., Sharma, N., Patel, N.H., Kumar, V. 2011. Early maturing potato for sustainable intensification in cereal based systems in India. In: EAPR 2011 Abstracts, The 18th Triennial Conference of the European Association for Potato Research held at Oulu, Finland during July 24-29, 2011. p. 111.

Khoury, C.; Castañeda-Alvarez, N.P., Vincent, H.; Jarvis, A., Maxted, N.; Eastwood, R.; Guarino, L.; 2011, Planning for Collecting the Crop Wild Relatives of the World's Major Crops, World Botany Conference, USA, May 2011.

Kumar A, Gupta RK, Jat ML, Malik RK, Sidhu HS, Gopal R. 2011. Inclusive research for agriculture development: farmers' participation and innovation. In: Resilient food systems for a changing world, Proceedings of the 5th World Congress of Conservation Agriculture Incorporating 3rd Farming Systems Design Conference, Brisbane Australia, 26-29 September, 2011, p 282-283.

Lopes, M.S. 2011. Drought adaptive traits in spring wheat advanced lines and re-synthesized hexaploid wheat. International Workshop on Dryland Science for food security and natural resource management under changing climate 7-9 December, Konya Turkey.

Lopes MS . 2011. Physiology as a tool to improve drought and heat tolerance. 1st Regional Winter Wheat Symposium. Tabriz, Iran.

Majumdar, K., Jat, M.L. and Shahi, V.B. 2011. Soil nutrient availability for zero till and conventional tilled maize in eastern India. In: Addressing Climate Change effects and Meeting Maize Demand for Asia, Book of extended summaries for the eleventh Asian Maize Conference (Eds Zaidi et al), Nanning, China, November 7-11, 2011, CIMMYT, Mexico, D.F.

Lopez Noriega, I. 2011. CRP7 and Policy Research and Support Unit. CRP7 Seminar, 13 May 2011. Bioversity International, Rome, Italy. Available on CD-ROM and online:
http://www.slideshare.net/slideshow/embed_code/8335107

Oyekunle, M., Badu-Apraku, B. and Aken 'Ova, M. 2011. Performance of early-maturing single, three-way and double cross hybrids under drought stress and well-watered conditions. Abstract of paper presented at the Annual Meeting of the African Crop Science Society, 10-13 October, 2011, Maputo, Mozambique.

Perez Vicente, L. 2011. Expectativas y desafíos para el manejo sostenible de plagas en musáceas frente a la variabilidad climática. 1st International Latin American Congress on Banana and Plantain, 22-24 June 2011. Available upon request.

Rao, I., Polania, J., Rivera, M., Ricaurte, J., Borrero, G., Grajales, M., Cajiao, C., Monserrate, F., Butare, L., Asfaw, A., Makunde, G., Alemahayu, F., Ramirez, J., Jarvis, A., and Beebe, S. 2011, Improving genetic adaptation of common bean to climate change, IAEA annual meeting, Vienna, 2011.

Rao, I., J. Miles, P. Wenzl, A. Louw-Gaume, J. A. Cardoso, J. Ricaurte, J. Polania, J. Rincon, V. Hoyos, E. Frossard, T. Wagatsuma and W. Horst. 2011. Mechanisms of adaptation of brachiariagrasses to abiotic stress factors in the tropics. Plenary paper presented at the III International Symposium on Forage Breeding held at Bonito, MS, Brazil, 7 to 11 November 2011. Published as CDROM (pp. 361-383).

Rudebjer, P. 2011. Capacity enhancement in CCAFS - Bioversity's contribution. CRP7 Seminar, 17 June 2011. Bioversity International, Rome, Italy.

Shiferaw, B., Negassa, A., Koo, J., Wood, J., Sonder, K., Braun, J.-A., and Payne, T., 2011. Future of Wheat Production in Sub-Saharan Africa: Analyses of the Expanding Gap between Supply and Demand and

Economic Profitability of Domestic Production. Paper presented at Increasing Agricultural Productivity & Enhancing Food Security in Africa: New Challenges and Opportunities 1-3 November 2011, Africa Hall, UNECA, Addis Ababa, Ethiopia

Subbarao, G. V., T. Ishikawa, K. Nakahara, M. Ishitani and I. M. Rao. 2011. BNI (Biological Nitrification Inhibition) function in tropical Brachiaria pastures. Plenary paper presented at the III International Symposium on Forage Breeding held at Bonito, MS, Brazil, 7 to 11 November 2011. Published as CDROM (pp. 401-414).

Warren, R., Price, J.T., Vanderwal J., Ramirez, J., Jarvis, A., Shoo, L., Goswami, S. 2011. Making scientific data available to adaptation practitioners: the Wallace Initiative and ClimaScope, AGU Fall Meeting, San Francisco, December 2011.

Shames S, Buck LE, Wollenberg E, Kristjanson P. 2011. Institutional Innovations for Engaging Smallholder Farmers in Agriculture Carbon Projects. Paper presented at the 2011 Colorado Conference on Earth System Governance, 17–20. May 2011. Fort Collins, CO, USA.

Staver, C. 14 October 2011. Proceedings of Workshop ProMusa 2011 Pests and diseases in bananas – projecting the effects of climate change; Salvador de Bahia, Brazil.

Staver, C. y J. Ramirez. 22 – 24 June 2011. Bananeros frente al cambio climático: Adaptación al incertidumbre, variabilidad y eventos extremos. International Congress - Cambio Climático en el Sector Platanero y Bananero, Piura, Perú. Available upon request.

Taulya, G. , Van Asten, P. , Leffelaar, P. A. , Giller, K. 2011 . Drought stress, nitrogen and potassium deficiency effects on dry matter partitioning in East African highland bananas. In: CIALCA conference 'Challenges and Opportunities for Agricultural Intensification of the Humid Highland Systems of Sub-Saharan Africa'. Kigali 24-27 October 2011. Book of Abstracts p.191.

Thornton, P. K. 2011. Socioeconomic dimensions of crop modelling. Symposium Honoring James Jones, ASA Annual Meetings, San Antonio, 19 October 2011. Paper 196-3, online at a-c-s.confex.com/crops/2011am/webprogram/Paper67848.html

Van Rikxoort, H. , Jassogne, L. , Laderach, P. , Van Asten, P. 2011. Building "climate smart" East African coffee production systems. In: CIALCA conference 'Challenges and Opportunities for Agricultural Intensification of the Humid Highland Systems of Sub-Saharan Africa'. Kigali 24-27 October 2011. Book of Abstracts p.29.

Vermeulen, S.J. and Campbell, B.M. 2011. How can sustainability science achieve impact for wicked problems such as climate change? Paper presented at the Independent Science and Partnership Council of the CGIAR's Science Forum, Beijing, 17-19 October 2011.

Xenarios, S., Asante, F. & McCartney, M.P. 2011 Economic efficiency of water storage options: an application of the approach to Ghana. 3rd Ghana Water Forum, 5-7 September 2011, Accra, Ghana

Conference proceedings count: 39

CCAFS Reports

Ericksen P J, Thornton P K, Notenbaert A, Cramer L, Jones P G and Herrero M 2011. Mapping hotspots of climate change and food insecurity in the global tropics. CCAFS Report No 5. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafsreport5-climate_hotspots_final.pdf

Havemann, T. and Muccione, V. 2011. Mechanisms for agricultural climate change mitigation incentives for smallholders. CCAFS Report no. 6. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: <http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafsreport6-mechs incentives mitigation.pdf>

Negra, C. and Wollenberg, E. 2011. Lessons from REDD+ for agriculture. CCAFS Report No. 4. CGIAR Research Program, Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_report_4_web.pdf

CCAFS Reports count: 3

Miscellaneous publications and reports

Abdou et Al., 2011. Methodology for the Calibration of daily satellite rainfall estimation algorithm for West Africa. Synthesis report, Agrhymet.

Adhikari, C., Acharya, G and Kristjanson P. 2011. Summary of Baseline Household Survey Results: Sarlahi, Nepal. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS) and CEAPRED. Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_sarlahi_nepal.pdf

Adiku et al., 2011. A diagnosis study on the introduction and operationalization of weather Index-based Crop Insurance Scheme in Ghana. University of Kumasi-SARI, Ghana.

Arnaud, E. and team. 2011. Maps of georeferenced accessions.

Ashby, J., Kristjanson, P., Thornton, P., Campbell, B., Vermeulen, S., Wollenberg, E. 2011. CCAFS Gender Strategy. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_gender_strategy2012-final.pdf

Beed, F., Benedetti, A., Cardinali, G., Chakraborty, S., Dubois, T., Garrett, K. and Halewood, M. 2011. Climate change and micro-organism genetic resources for food and agriculture: state of knowledge, risks and opportunities. Background Study Paper No. 57, Commission on Genetic Resources for Food and Agriculture, prepared for 13th Regular Session. <http://www.fao.org/docrep/meeting/022/mb392e.pdf>

Beed, F. 2011. The impact of climate change on countries' interdependence for microbial genetic resources for agriculture. Chapter 5. Background Study Paper No. 48. p 38-58 and 74-78. Commission on Genetic Resources (FAO). <ftp://ftp.fao.org/docrep/fao/meeting/017/ak532e.pdf>

Bell, M., Hansen J.W. 2011. Historical global and regional gridded meteorological data sets for agricultural modeling.

Boureima et Al., 2011. Household-level baseline study of Fakara, Niger. Reports CCAFS-INSAH-INRAN. November 2011

Bougouna S. et Al., 2011. Documenting local innovative options for adaptation and mitigation to climate change, and mechanisms for networking among innovative farmers in West Africa. Synthesis report.

Boone, R., Conant, R.T. and Hilinski, T. 2011. G-Range: development and use of a beta global rangeland model. Project Report. Colorado State University, International Livestock Research Institute and CCAFS. 66 p

Boone RB, Conant RT, Hilinski TE, 2011. G-Range: Development and Use of a Beta Global Rangeland Model. Report and software available on CCAFS website.

Branca G, McCarthy N, Lipper L, Jolejole MC. 2011. Climate-Smart Agriculture: A Synthesis of Empirical Evidence of Food Security and Mitigation Benefits from Improved Cropland Management. Food and Agriculture Organization of the United Nations. <http://www.fao.org/docrep/015/i2574e/i2574e00.pdf>

Braun, M. and Saroar, M. 155 Initial Participatory Research Assessment for Participatory Action Research on Climate Risk Management. Climate Change, Agriculture and Food Security (CCAFS). Field Report.

Balaji, V., Craufurd, P., 2011. Emerging trends in the IGP countries in relation to delivery and exchange of climate information in institutionalized agri-extension systems and through ICT4D.

Bharati L, Lacombe G, Gurung P, Jayakody P, Hoanh C. T, Smakhtin V. 2011. The impacts of water infrastructure and climate change on the hydrology of the Upper Ganges River Basin. Colombo, Sri Lanka: International Water Management Institute. 44 p. IWMI Research Report 142. doi: 10.5337/2011.210

Bryan, E, Ringler, C, Okoba, B, Roncoli, C, Silvestri, S and Herrero M. 2011. Coping with Climate Variability and Adapting to Climate Change in Kenya: Household and Community Strategies and Determinants. Report to the World Bank. Report 3a of the project "Adaptation of Smallholder Agriculture to Climate Change in Kenya". IFPRI – KARI - U of Georgia – ILRI. International Food Policy Research Institute, Washington DC, 63 p.

Cadima, X. Foundation for the Promotion and Investigation of Andean Products (PROINPA), Bolivia, presented on the role of agrobiodiversity in coping with climate change and the experience of rural communities and indigenous peoples. Available at: http://www.fao.org/fileadmin/templates/nr/documents/CGRFA/Local_Perspective_Cadima.pdf

Challinor, A. J. 2011 "Commentary on Chapter 2.1: Climate Change Projections in Some Asian Countries" in Climate Change Adaptation and International Development. (Eds. R. Fujikura and M. Kawanishi). *Earthscan* p. 63-65.

Chaves B, Hoogenboom G, 2011. Strengthening Soil Databases for Climate Change and Food Security Modeling Applications: WISE Soil Profile Database V3.1 for DSSAT Applications. CCAFS Website.

CCAFS. 2011. Brief Report on Linking Knowledge with Action through Regional Scenario Building. November 2011.

CCAFS. 2011. Qualitative and quantitative description of CCAFS benchmark sites in West Africa.

CCAFS. 2011. Communicating Carbon Workshop Report. 12-14 October 2011. Available at: <http://ccafs.cgiar.org/resources/project-reports>

CCAFS. 2011. Scenarios for socio-economic development under global environmental change: Testing strategies and building networks to improve food security, environments and livelihoods. CCAFS brief www.ccafs.cgiar.org/resources

CCAFS. 2011. Agrobiodiversity to address climate change, agriculture and food security. 19 July 2011. Thirteenth Regular Session of the Commission on Genetic Resources for Food and Agriculture. Food and Agriculture Organization of the United Nations. <http://ccafs.cgiar.org/events/19/jul/2011/agrobiodiversity-address-climate-change-agriculture-and-food-security>

CGIAR. 2011. Contributions to the Collective Action and Property Rights Program's: CAPRI Sourcebook entitled Resources, Rights, and Cooperation. A Sourcebook on Property Rights and Collective Action for Sustainable Development. In addition to hard copy distribution, the full sourcebook has been downloaded over 1500 times in PDF, iPad, and Kindle versions. <http://www.capri.cgiar.org/sourcebook.asp>

Das, N., Ines, A.V.M., Norton, M., 2011. Assimilation of Remote Sensing Data With a Crop Model to Improve Crop Yield Forecasting

Diakité et Al., 2011. Household-level baseline study of Cinzana, Mali. Reports CCAFS-INSAH-IER.

Dinku. T. 2011. Development of Improved Daily Rainfall and Temperature Time Series over Ethiopia

Desta S, Tezera S, Gebru G, Kristjanson P. 2011. Summary of Baseline Household Survey Results: Borana, Ethiopia. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_borana_ethiopia.pdf

de Nicola, F., Hill, R.V., Carter, M., Choularton, R., Hansen, J. and Osgood, D., 2011. Index Insurance for Managing Climate-Related Agricultural Risk: Toward a Strategic Research Agenda. Workshop Report, December 2011, International Food Policy Research Institute, Washington DC. Available at: <http://ccafs.cgiar.org/resources/project-reports>

de Nicola, F., Hill, R.V., 2011. Index Insurance for Managing Climate-Related Agricultural Risk: Background Literature Review. December 2011, International Food Policy Research Institute, Washington DC.

Ericksen P J, Thornton P K, Notenbaert A, Cramer L, Jones P G and Herrero M. 2011. Mapping hotspots of climate change and food insecurity in the global tropics. Report to CCAFS, ILRI, Nairobi, 77 pp.

Fadda, C. 1 September 2011. Seeds for needs approach was proposed as one option to mitigate drought-induced food crisis.

Fadda, C. 5-9 October 2011. Seeds for needs approach as an example on how science can help policy to adapt to climate change. Pre-Meeting for the IPBES second multi-stakeholder meeting. Nairobi, Kenya.

FAO. 2011. Report of the Thirteenth Regular Session of the Commission on Genetic Resources for Food and Agriculture. Food and Agriculture Organization of the United Nations, Rome. July 2011.

<http://www.fao.org/nr/cgrfa/cgrfa-meetings/cgrfa-comm/thirteenth-reg/en/>

FAO. 2011. Report from the international agriculture research centres of the consultative group on international agricultural research to the intergovernmental technical working group on plant genetic resources for food and agriculture. Food and Agriculture Organization of the United Nations, Rome. April 2011. Available at:

http://typo3.fao.org/fileadmin/templates/agphome/documents/PGR/ITWG/ITWG5/ITWG5_INF8ReportfromCGIARFINALUpton_01.pdf

Fonte, S.J., González, A., Graefe, S., Guimaraes, E., Perpétuo, M.G., Jarvis, A., Lavelle, P., Lundy, M., Peters, M., Quintero, M., Rao, I., Tapasco, J., Etter, A., Martínez, C., Murgueitio, R., E., Reis, C.J., Rodríguez, C.A. 2011. Strategy in action abridged version: Amazon region eco-efficient landscapes. CIAT Strategy in action No. 2 (abridged version). Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia. Available at:

http://www.ciat.cgiar.org/Publications/Documents/strategy2_amazon_abridged_version.pdf

Fujisaka, S., Williams, D and Halewood, M. (Eds). April 2011. Background Paper No. 48: The impact of climate change on countries' interdependence on genetic resources for food and agriculture. Food and Agriculture Organization of the United Nations, Rome. April 2011. Available at:

<ftp://ftp.fao.org/docrep/fao/meeting/017/ak532e.pdf>

Fritz S, See L, 2011. Characterizing and Validating Global Land Cover. A workshop organised by IIASA, CGIAR Consortium for Spatial Information (CSI), Group on Earth Observation (GEO), the Agricultural Monitoring Communities of Practice (COP), GOF-C-GOLD, and the Joint Research Centre of the European Commission (JRC). Presentations and summaries available at www.iiasa.ac.at/Research/FOR/lc/presentations.html and www.iiasa.ac.at/Research/FOR/lc/breakout.html

Förch, W., Barahona, C., Kristjanson, P., Thornton, P., Mango, J., Onyango, L., Noor, F. 2011. CCAFS Village-Level Baseline Study - Implementation Manual. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

<http://ccafs.cgiar.org/resources/baseline-surveys>

Förch W., Kristjanson, P. and Thornton P. K. 2011. Initial Sites in the CCAFS Regions: Eastern Africa, West Africa and Indo-Gangetic Plains. CCAFS Report, 74 pp. Available at:

<http://ccafs.cgiar.org/resources/project-reports>

Gockowski J, Robiglio V, Muilerman S, and Agyeman NF. 2011. Agricultural Intensification as a Strategy for Climate Mitigation in Ghana. International Institute of Tropical Agriculture.

Garrett, K.A., 2011. Priorities to address pests and diseases in agricultural adaptation to climate change: East Africa, West Africa, and the Indo-Gangetic Plains.

Grimes, D., Tarnavsky, E., Maidment, R., 2011. Progress report: Rainfall Data Generation and Analysis for African Meteorology.

Greene AM, 2011. The Simgen software package: User guide and notes. CCAFS website.

Hoogenboom, G., Salazar, M. 2011. Interim Report: Crop and Rangeland Forecasting Tools and Platforms Preliminary Review.

Hurst, M., Jensen, N., Pedersen, S.H., Sharma, A., Zambriski, J.A., 2011. Changing Climate Adaptation Strategies of Boran Pastoralists in Southern Ethiopia

ICRAF. 2011. Carbon payments for watershed management. Jun 23, 2011. Available online: <http://presa.worldagroforestry.org/blog/2011/06/23/carbon-payments-for-watershed-management/>

Jarvis, A. 2011. Facilitating REDD in the Amazon: tools and methodologies to inform decision making= REDD en el Amazonas: herramientas y metodologías para tomar decisiones . Centro Internacional de Agricultura Tropical (CIAT), Cali, CO. 2 p. (CIAT Hoja Informativa No. 17 CIAT Brief No. 17)

Jones PG, Thornton PK, Heinke J, 2011. Generating characteristic daily weather data using downscaled climate model data from the IPCC Fourth Assessment. <https://hc.box.net/shared/f2gk053td8>

Joost et al., 2011. Scenario development workshop for food security, environments and livelihoods in West Africa. 65p.

Jost, C.C., 2011. Delivery Models for Climate Information in East and West Africa.

Karanja, S., Diarra, L., Notenbaert, A., Herrero, M. 2011 Coping strategies and vulnerability of households in Mali and Mozambique. BMZ Project report: Supporting the vulnerable: Increasing the adaptive capacity of agro-pastoralists to climatic change in West and Southern Africa using a trans-disciplinary research approach. ILRI, Nairobi, Kenya, 91 p.

Koné et Al., 2011. Collation of regional yield data for crop model calibration and validation for five countries in West Africa.

Krishnamurthy, P.K., Hobbs, C., Siemon R. Hollema, Richard J. Choularton, Krishna Pahari. 2011. Climate risk and food security in Nepal: Analysis of climate impacts on food security components.

Kristjanson, P., Förch, W., Barahona, C. Garlick, C., Thornton, P. CCAFS Baseline Household Level Survey: Manual for Survey Sites. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. <http://ccafs.cgiar.org/resources/baseline-surveys>

Kristjanson P, Garlick C, Ochieng S, Förch W, Thornton PK. 2011. Summary of Baseline Household Survey Results: Cinzana, Mali. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_cinzana_mali.pdf

Kristjanson P, Garlick C, Ochieng S, Förch W, Thornton PK. 2011. Summary of Baseline Household Survey Results: Lawra, Jirapa, Ghana. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_lawra_jirapa_ghana.pdf

Kristjanson, P., Thornton, P.K., Moussa, B., Zougmore, R., Dieye, K., Amadou, M., Moussa, A.S., Förch, W., Garlick, C., Ochieng, S. 2011. Summary of Baseline Household Survey Results: Fakara, Niger. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_fakara_niger.pdf

Kristjanson, P., Garlick, C., Ochieng, S., Förch, W., Thornton, P.K. 2011. Global Summary of Baseline Household Survey Results. CGIAR research program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

http://ccafs.cgiar.org/sites/default/files/assets/docs/summary_of_households_baseline_studies_all_sites_report_final30-11-11.pdf

Kyazze F. B, Kristjanson P. 2011. Summary of Baseline Household Survey Results: Rakai, Uganda. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_rakai_uganda.pdf

Lasco, R.D, Habito, C.M.D., Delfino, R.J.P., Pulhin, F.B., Concepcion, R.N. World Agroforestry Centre (ICRAF), Los Baños (Philippines) 2011. Climate change adaptation for smallholder farmers in Southeast Asia. Los Baños, Philippines: World Agroforestry Centre (ICRAF) 65p.

Lasco, R.D. World Agroforestry Centre (ICRAF). SEA Regional Office. 2011. Climate smart rural development. Tempo V (3) p. 8-9.

Lee J. 2011. Smallholder Agricultural Carbon Projects In Ghana. Report to CCAFS Theme 3.

Ling, Li. 2011. Climatic stresses at pea collection sites in China; final technical report for the Vavilov Frankel Fellowship. Liaoning Academy of Agricultural Science, Liaoning, China.

Loo, J., Fady, B., Dawson, I., Vincetil, B., Baldinelli, G. Bioversity International, Rome (Italy) 2011. Climate change and forest genetic resources - state of knowledge, risks, and opportunities. -- Rome, Italy: Food and Agriculture Organization of the United Nations (FAO) Prepared for the Thirteenth Regular Session of the Commission on Genetic Resources for Food and Agriculture, 18-22 July 2011, FAO Headquarters, Rome Background study paper no. 56.

Lyamchai C, Yanda P, Sayla G, Kristjanson P. 2011. Summary of Baseline Household Survey Results: Lushoto, Tanzania. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_lushoto_tanzania.pdf

Mango J, Mideva A, Osanya W. Odhiambo, A, Kristjanson P. 2011. Summary of Baseline Household Survey Results: Lower Nyando, Kenya. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

http://ccafs.cgiar.org/sites/default/files/assets/docs/ka01report_final.pdf

Maxwell,D., Masters, W., Walker, P., Webb, P., Parker, J., Ha, A., 2011. A Scoping Study on Climate Change and Food Security.

McCarthy N, Lipper L, Branca G. 2011. Climate-Smart Agriculture: Smallholder Adoption and Implications for Climate Change Adaptation and Mitigation. Food and Agriculture Organization of the United Nations. <http://www.fao.org/docrep/015/i2575e/i2575e00.pdf>

Misiko, M, 2011. An analysis of institutions and potential project benefits in Nyando, western Kenya: a study report. Presented at the Sustainable Agriculture in a Changing Climate (SACC) project workshop, 28-30 June 2011, in Kisumu, Kenya.

MacHarris, J., Coffey, K. 2011. Improving Management of Climate Impacts on Food Security: Toward a Strategic Research Agenda.

Naab et Al., 2011. Household-level baseline study of Lawra-Jirapa, Ghana. Reports CCAFS-INSAH-SARI.

Narasimhan P. 2011. Climate change adaptation and mitigation in agriculture: Status & Trends in Ghana. Report to CCAFS Theme 3.

Ndiaye, O., 2011. Communicating the probabilistic seasonal forecast for a better farming management and decisions.

Ndiaye, O., 2011. Assessing seasonal and intra-seasonal skill at Kaffrine station in Senegal.

Ndiaye, O. 2011. Prévision saisonnière de la saison allant de Juin à Octobre 2011 Sur la localité de Kaffrine et environnante.

Ndour et Al., 2011. Household-level baseline study of Kaffrine, Senegal. Reports CCAFS-INSAH-ISRA.

Nicholas, M and Thomas, T . 2011. "Food Security and Climate Change to 2050: Cambodia", Special Report 11, Policy Discussion Paper, Cambodia Development Resource Institute.
<http://www.cdri.org.kh/webdata/download/sr/fsc11e.pdf>

Naab and Koranteng, 2011. Gender and CC-related tools to mainstreaming gender and social differentiation into regional/national strategies for climate change, agriculture and food security, Lawra-Jirapa Site, Ghana. 25p.

Ndiaye et Al., 2011. Communicating the probabilistic seasonal forecast for a better farming management and decisions at Kaffrine, Senegal. Synthesis report, 17 pages.

Neufeldt, H., van de Sand, I., Dietz, J., Minh Ha, H., Yatich, T., Lasco, R.D., van Noordwijk, M. 2011. Climate change, climate variability and adaptation options. In: van Noordwijk, M., Minh Ha, H., Neufeldt, H., Oborn, I. and Yatich, T. 2011. How trees and people can co-adapt to climate change: reducing vulnerability through multifunctional agroforestry landscapes. Nairobi: World Agroforestry Centre (ICRAF) p. 15-35.

New, M., Anderson, K., Bows, A., Fung, F., and Thornton, P. K. 2011. SR8: The possible impacts of high levels of climate change in 2060 and implications for migration. Report for the UK Government Foresight Project on Migration and Global Environmental Change, 56 pp. Online at

www.bis.gov.uk/assets/bispartners/foresight/docs/migration/science-reviews/11-1126-sr8-impact-high-levels-climate-change-2060-for-migration.pdf

Njab, M. R. 2011. The effect of temperature on the biology of the banana aphid (Hemiptera: Aphididae), vector of banana bunchy top virus. Fifth year thesis, University of Dschang, Cameroon. Registered number: CM04-06ASA0077. 60pp.

Okogbenin, E., Setter, T., Ferguson, M., Mutege, R., Alves, A., Ceballos, H. and Fregene, M. 2011. Phenotyping cassava for adaptation to drought, CGIAR Generational Challenge Programme, chapter 11.3.1.

PAR. 2011. Platform for Agrobiodiversity Research – Statement made at the 13th Regular Session of the Commission on Genetic Resources for Food and Agriculture (CGRFA): Agenda Item 2.2 Climate change and genetic resources for food and agriculture.

http://agrobiodiversityplatform.org/climatechange/files/2011/07/PAR_Statement.pdf

PAR. 2011. Farmers and genebanks: creating alliances to help rural communities cope with climate change. Platform for Agrobiodiversity Research. Rome, Italy. 2011. Available on CD-ROM and online:

<http://agrobiodiversityplatform.org/climatechange/files/2011/08/Prova6-corretto6-LOWRES.pdf>

Priti et al., 2011. Status & trends of Climate change adaptation and mitigation policy for agriculture in Ghana. Synthesis Report, 66p.

Quiroz R, Posadas A, 2011. Application of nonlinear techniques for daily weather data reconstruction and downscaling coarse climate data for local predictions. CCAFS website.

Ramakrishna, Y.S., 2011. Current status of Agrometeorological Services in South Asia with special emphasis on Indo-Gangetic Plains.

Robinson T P, Thornton P K., Franceschini G, Kruska R L, Chiozza F, Notenbaert A, Cecchi G, Herrero M, Epprecht M, Fritz S, You L, Conchedda G and See, L. 2011. Global livestock production systems. Rome, Food and Agriculture Organization of the United Nations (FAO) and International Livestock Research Institute (ILRI), 152 pp.

Robertson, A., 2011. Summary technical report of the seasonal climate predictability for northern India (Punjab or Haryana, and Bihar), Nepal and Bangladesh CCAFS Asia benchmark target regions.

Rudebjer P, van Schagen B, Chakeredza S, Njoroge K, Kamau H, Baena M. 2011. *Teaching agrobiodiversity: a curriculum guide for higher education*.

http://www.bioversityinternational.org/nc/publications/publication/issue/teaching_agrobiodiversity_a_curriculum_guide_for_higher_education.html

Robinson T, D'Aiotti L, 2011. Global Mapping of Intensive Livestock Production Systems, Quarterly Reports. CCAFS website.

Samari H. 2011. State of Climate Change Adaptation and Mitigation Efforts for Agriculture in Mali: National Survey. Report to CCAFS Theme 3.

Samari H. 2011. State of Climate Change Adaptation and Mitigation Efforts for Agriculture in Senegal: National Survey. Report to CCAFS Theme 3.

Samari H. 2011. State of Climate Change Adaptation and Mitigation Efforts for Agriculture in Burkina Faso: National Survey. Report to CCAFS Theme 3.

Samaké et Al., 2011. Status & trends of Climate change adaptation and mitigation policy for agriculture in Mali. Synthesis Report, 42p.

Samari et al., 2011. Status & trends of Climate change adaptation and mitigation policy for agriculture in Burkina Faso. Synthesis Report, 24p.

Samari et al., 2011. Status & trends of Climate change adaptation and mitigation policy for agriculture in Senegal. Synthesis Report, 32p.

Sheffield, J., 2011. Progress report: Development and evaluation of long-term, high-resolution, daily meteorological data for West/East Africa by merging in-situ, remote sensing and model data sources.

Singh RPK, Kristjanson P. 2011. Summary of Baseline Household Survey Results: Bihta, Bihar State, India. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_bihta_india.pdf

Small Island Developing States green economy report submitted for SIDS sub-regional preparatory meetings for Rio+20, August 2011. Available online: http://www.sidsnet.org/provisional/docs/newsletter/SIDS_Unit_Newsletter-August_2011.pdf

Somé, L., Sissoko, K., Zougmore, R., Traoré, B., Amadou, M., Moussa, A.S., Förch, W., Garlick, C., Ochieng, S., Kristjanson, P and Thornton, P.K. 2011. Summary of Household Baseline Survey Results: Tougou, Burkina Faso. CGIAR research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at: http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_tougou_burkina-faso.pdf

Streck, C et al 2011. Addressing Agriculture in Climate Change Negotiations. Meridian Institute Scoping Report. June 2011. Available online at: <http://ccafs.cgiar.org/resources/reports-and-policy-briefs#PB>

Sommer, R. 2011. Information sheet on future climate and impacts in the rural case studies: Tel Hadya, Syria. 'Integrating Case Studies' within the Climate Change and Impact Research: *The Mediterranean Environment, CIRCE project*. Online publication: http://www.cru.uea.ac.uk/projects/circe/TH_Future_impacts_infosheet_Final.doc

Tenalem Ayenew, Sileshi Mamo, Elias Ali, Abdela Abdu, Merhawi Gebreegziabher And Afework Desalegn .2011. Hydrogeological and groundwater potential evaluation, water quality assessment and socio-economic surveying for small-scale irrigation development in the Raya-Kobo valleys, northern Ethiopia. Final Report to IWMI, September 2011.

Thorlakson, T. 2011. Reducing subsistence farmers' vulnerability to climate change. World Agroforestry Centre (ICRAF) ICRAF Occasional paper no. 16.

Thornton, P. K. and Förch, W. 2011. Additional CCAFS Target Regions: Recommendations to the ISP. CCAFS document, 17 pages.

Thornton, P. K. 2011. A framework on addressing climate change adaptation and vulnerabilities. Chapter 15 (pp 205-211) in J Gonsalves, P Mohan (eds), Strengthening Resilience in Post-Disaster Situations: Stories, Experience and Lessons From South Asia. Academic Foundation. Delhi, and IDRC, Ottawa.

Traoré et Al., 2011. Harmonizing methodologies for seasonal forecasting of the characteristics of the rainy season in West Africa. Synthesis report, Agrhymet.

Traoré et al., 2011. A field and institutional assessment study report of the Mali Agro-meteorological advisory mechanism for its scaling-up in the Sahel. IER Mali.

Thornton, P. K., Rufino, M. C., Karanja, S., Jones, P. G., Mutie, I., Herrero, M. 2011. Genesis Reversed: Climate Change Impacts on Agriculture and Livelihoods in Mixed Crop-Livestock Systems of East Africa. Final report to the World Bank. International Livestock Research Institute (ILRI), Nairobi. 162 pp.

Wollenberg, E. (ed) 2011. Climate Change Adaptation and Mitigation in Agriculture Science Workshop Report.

Workshop report: CCAFS/FAO Expert Workshop on Smallholder Mitigation: Mitigation Options and Incentive Mechanisms. Rome, 7-8 July 2011. Workshop Summary.

Workshop report: CCAFS/FAO Expert Workshop on Smallholder Mitigation: Whole Farm and Landscape Accounting. Rome, 27-28 October 2011. Workshop Summary.

Wang S. 2011. State of Climate Change Adaptation and Mitigation Efforts for Agriculture in Bhutan. Report to CCAFS Theme 3.

Wollenberg E, Campbell B, Nihart A, Holmgren P, Seymour F, Sibanda L, and von Braun J. 2011. Actions Needed to Halt Deforestation and Promote Climate-Smart Agriculture. In Peetermans J, ed, Greenhouse Gas Market Report 2011, pp. 95-100. International Emissions Trading Association, Geneva.

Yacine, N., Sissoko, K., Zougmore, R., Dieye, K., Amadou, M., Moussa, A.S., Förch, W., Garlick, C., Ochieng, P., Kristjanson, P. and Thornton, P. k. 2011. Summary of Household Baseline Survey results: Kaffrine, Senegal. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark. Available at:

http://ccafs.cgiar.org/sites/default/files/assets/docs/ccafs_hbs_kaffrine_senegal.pdf

Zakou et al., 2011. Mitigation Options and Incentive Mechanisms for agricultural climate change mitigation to benefit the smallholders: case study on the Niger bio-carbon project on acacia Senegal plantation. Synthesis report.

Miscellaneous publications and reports count: 121

AgClim Letters

Author: Sonja Vermeulen

1 Dec 2011: "Our only (food) security is our ability to change"

1 Dec 2011: "Notre seule sécurité (alimentaire), c'est notre capacité à changer"

2 Nov 2011 "Cloudy, with a chance of drought"

2 Nov 2011: "Temps nuageux, avec une probabilité de sécheresse"

3 Oct 2011: "If you don't catch a fish, don't blame the sea"

3 Oct 2011: "Si vous ne pouvez plus pêcher des poissons, ne blâmez pas la mer"

1 Sept 2011: "Strength through variety? Seed systems in future climates"

1 Sept 2011: "La capacité des variétés: les systèmes semenciers au cœur des futures climats"

1 July 2011: "Mining the past to manage the future"

1 July 2011: "Fouillant dans le passé pour mieux gérer l'avenir".

1 Jun 2011: "Earth is a small REDD+ planet"

1 Jun 2011: "La Terre est une petite planète REDD+"

1 Apr 2011: "Adaptation: all talk and no action?"

1 Apr 2011: "Adaptation, tout le monde en parle et personne n'agit?"

1 Mar 2011: "Emissions efficiency: are some animals more equal than others?"

1 Mar 2011: "L'efficacité des émissions: certains animaux sont-ils plus égaux que d'autres?"

1 Feb 2011: "Fertilizing grounds for change in Chinese agriculture"

1 Feb 2011: "Fertilisant une transformation de l'agriculture chinoise"

AgClim Letters count: 18