

List of works consulted

Bibliography for “Agricultural greenhouse gases” and “Mitigation opportunities in the agricultural sector” PowerPoints; *Technical annex to ““Strategies for Mitigating Climate Change in Agriculture: Recommendations for Philanthropy.”*

March 2014

- Akiyama, H., X. Yan, K. Yagi. (2010). Evaluation of Effectiveness of Enhanced-Efficiency Fertilizers as Mitigation Options for N₂O and NO Emissions from Agricultural Soils: Meta-Analysis. *Global Change Biology* 16
- Alexandratos, N., J. Bruinsma, G. Bodeker, J. Schmidhuber, S. Broca, P. Shetty, M.G. Ottaviani. (2012). *World agriculture towards 2030/2050*.
- Alexandratos, N., Bruinsma J. (2012). *World agriculture towards 2030/2050, the 2012 revision*. (ESA Working paper No. 12-03). Rome, Italy: Food and Agriculture Organization of the United Nations
- Archibeque, S., K. Haugen-Kozyra, K. Johson, E. Kebreab, W. Powers-Schilling, L. Olander, A. Van de Bogert. (2012). *Near-Term Options for Reducing Greenhouse Gas Emissions from Livestock Systems in the United States*. Washington, D.C.: Technical Working Group on Agricultural Greenhouse Gases
- Australia. (2012). *Australia, Annex 1 Party GHG National Inventory Submission, Kyoto Protocol*.
- Australia. (2012). *Australia, Annex 1 Party GHG National Inventory Submission, Framework Convention on Climate Change*.
- Baccini, A., S.J. Goetz, W.S. Walker, N.T. Laporte, M. Sun, D. Sulla-Menashe, J. Hackler, P.S.A. Beck, R. Dubayah, M.A. Friedl, S. Samanta, R.A. Houghton. (2012). *Estimated Carbon Dioxide Emissions from Tropical Deforestation Improved by Carbon-density Maps*. *Nature Climate Change* 2: 182-185
- Bellarby, J., B. Foereid, A. Hastings, P. Smith. (2008). *Cool Farming: Climate impacts of agriculture and mitigation potential*. Amsterdam: Greenpeace International.
- Blaser, J., C. Robledo. (2007). *Initial Analysis of the Mitigation Potential in the Forestry Sector*.
- Borken-Kleefeld, J., T. Berntsen, J. Fuglestvedt. (2010). *Specific Climate Impact of Passenger and Freight Transport*. *Environmental Science and Technology* 44: 5700-5706
- Brazil. (2013). *Estimativas anuais de emissões de gases de efeito estufa no Brasil*, Ministerio da Ciencia, Tecnologia e Inovacao, Brasilia. UNFCCC national communication on climate change.
- Brown, J., J. Cole, M. Hanson, S. Kartha, M. Lazarus, A. Merkl, H. Thompson, M. Tobin, L. Wolfson. (2008). *Design to Win: Philanthropy's Role in the Fight Against Global Warming*.
- Burney, J.A., S.J. Davis, D.B. Lobell. (2010). *Greenhouse Gas Mitigation by Agricultural Intensification*. *PNAS* 107(26):12052-12057
- Busche, J., B. Gugele, R. Harthan, A. Herold, T. Kother, S. Poupa, M. Wieser. (2008). *Changes and Implications of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories*.
- Castellanos, P., F.K. Boersma. (2012). *Reduction in Nitrogen Oxides Over Europe Driven by Environmental Policy and Economic Recession*. *Scientific Reports* 2(265)

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

CCAFS website. CGIAR Bigfacts website on agricultural emissions. <http://ccafs.cgiar.org/bigfacts2014/#>

Chen, G.Q., B. Zhang. (2010). Greenhouse gas emissions in China 2007: Inventory and input-output analysis. *Energy Policy* 38, 6180-6193.

Conant, R.T., K. Paustian. (2002). Potential soil carbon sequestration in overgrazed grassland ecosystems. *Global Biochemical Cycles* 16 (4).

Eagle, A.J., L. Olander, K. Haugen-Kozyra, N. Millar, G.P. Robertson. (2011). *Greenhouse Gas Mitigation Potential of Agricultural Land Management in the United States: A Synthesis of the Literature*, 2nd Edition. Durham, NC: Nicholas Institute for Environmental Policy Solutions, Duke University. <http://nicholasinstitute.duke.edu/ecosystem/land/TAGGDLitRev>.

EDGAR v4.2. European Commission JRC Joint Research Centre and the Netherlands Environmental Assessment Agency (PBL). (2011). *Emissions Database for Global Atmospheric Research v 4.2*.

Eisenraut, A. (2010). Sustainable production of second-generation biofuels: potential and perspectives in major economies and developing countries. International Energy Agency.

EPA. U.S. Environmental Protection Agency. (2013). *Global Mitigation of Non-CO₂ Greenhouse Gases: 2010-2030*. EPA-430-R-13-011.

E.U. National Inventory Report. (2012). Tier and Uncertainty. UNFCCC.

Fairley, P. (2011). Next generation biofuels. *Nature* 474 (23): S2-S5.

FAOSTAT 2010 Classic online database. Tubiello, F.N., M. Salvatore, S. Rossi, A. Ferrara, N. Fitton, P. Smith. (Accessed 2013). The FAOSTAT database of greenhouse gas emissions from agriculture. United Nations Food and Agricultural Organization. Data available through 2010. www.faostat.fao.org

FertiStat: Fertilizer Use Statistics. FAO. (2007). Online database: <http://www.fao.org/ag/agp/fertistat/>

Filoso, S., L.A. Martinelli, R.W. Howarth, E.W. Boyer, F. Dentener. (2006). Human activities changing the nitrogen cycle in Brazil. *Biogeochemistry* 79: 61-89.

Foley, J.A., N. Ramankutty, K.A. Brauman, E.S. Cassidy, J.S. Gerber, M. Johson, N.D. Mueller, C. O'Connell, D.K. Ray, P.C. West, C. Balzer, E.M. Bennett, S.R. Carpenter, J. Hill, C. Monfreda, S. Polasky, J. Rockstrom, J. Sheehan, S. Siebert, D. Tilman, D.P.M. Zaks. (2011). Solutions for a Cultivated Planet. *Nature* 478: 337- 342

Global Harvest Initiative. (2012). 2012 GAP report.

Garnett, T., M.C. Appleby, A. Balmford, I.J. Bateman, T.G. Benton, P. Bloomer, B. Burlingame, M. Dawkins, L. Dolan, D. Fraser, M. Herrero, I. Hoffman, P. Smith, P.K. Thornton, C. Toulmin, S.J. Vermeulen, H.C.J. Godfray. (2013). Sustainable intensification in agriculture: premises and policies. *Science* 341:33-34.

Garnett, T. (2011). What Are the Best Opportunities for Reducing Greenhouse Gas Emissions in the Food System (Including the Food Chains)? *Food Policy* 36: S23-S32

GCAM (personal communication). Data about GHGs within the GCAM reference scenario provided by G Page Kyle, Nov 2013.

Gerber, P., A. Hristov, B. Henderson, H. Makkar, J. Oh, C. Lee, R. Meinen, F. Montes, T. Ott, J. Firkins, A. Rotz, C. Dell, A. Adesogan, W. Yang, J. Tricarico, E. Kebreab, G. Waghorn, J. Dijkstra, S. Oosting.

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

- (2013). Technical options for the mitigation of direct methane and nitrous oxide emissions from livestock: a review. *Animal*.
- Gerber, P.J., B. Henderson, H.P.S. Makkar. (2013). Mitigation of Greenhouse Gas Emissions in Livestock Production.
- Godfray, H.C.J., J.R. Beddington, I.R. Crute, L. Haddad, D. Lawrence, J.F. Muir, J. Petty, S. Robinson, S.M. Thomas, C. Toulmin. (2010). Food Security: The Challenge of Feeding 9 Billion People. *Science* 327: 812-818
- Golub, A.A., B.B. Henderson, T.W. Hertel, P.J. Gerber, S.K. Rose, B. Sohngen. (2012). Global climate policy impacts on livestock, land use, livelihoods, and food security. *PNAS*
www.pnas.org/cgi/doi/10.1073/pnas.1108772109
- Gonzalez, A.D., B. Frostell, A. Carlsson-Kanyama. (2011). Protein efficiency per unit energy and per unit greenhouse gas emissions: potential contribution of diet choices to climate change mitigation. *Food Policy*. doi:10.1016/j.foodpol.2011.07.003
- Hansen, M.C., P.V. Potapov, R. Moore, M. Hancher, S.A. Turubanova, A. Tyukavina, D. Thau, S.V. Stehman, S.J. Goetz, T.R. Loveland, A. Kommareddy, A. Egorov, L. Chini, C.O. Justice, J.R.G. Townshend. (2013). High-resolution global maps of 21st-Century forest cover change. *Science* 342, 850-853.
- Harris, N.L., S. Brown, S.C. Hagen, S.S. Saatchi, S. Petrova, W. Salas, M.C. Hansen, P.V. Potapov, A. Lotsch. (2012). Baseline Map of Carbon Emissions from Deforestation in Tropical Regions. *Science* 336:1573-1576.
- Harrib 2012b. Harris, N., S. Brown, S.C. Hagen. (2012). Progress Toward a Consensus on Carbon Emissions from Tropical Deforestation.
- Havlik, P., H. Valin, M. Obersteiner, E. Schmid, M.C. Rufino, A. Mosnier, P. Thornton, H. Bottcher, R.T. Conant, S. Frank, S. Fritz, S. Fuss, F. Kraxner, A. Notenbaert. (2014). Climate change mitigation through livestock system transitions. doi: 10.1073/pnas.1308044111
- Herrero, M., P. Havlik, H. Valin, A. Notenbaert, M.C. Rufino, P.K. Thornton, M. Blummel, F. Weiss, D. Grace, M. Obersteiner. (2013). Biomass use, production, feed efficiencies, and greenhouse gas emissions from global livestock emissions. *PNAS* 110(52):20878-20881.
- Hillier, J., F. Brnetrup, M. Wattenbach, C. Walter, T. Garcia-Suarez, L. Mila-i-Canals, P. Smith. (2012). Which Cropland Greenhouse Gas Mitigation Options Give the Greatest Benefits in Different World Regions? Climate and Soil-Specific Predictions from Integrated Empirical Models. *Global Change Biology* 18: 1880-1894
- Hooijer, A., S. Page, J.G. Canadell, M. Silvius, J. Kwadijk, H. Wosten, J. Jauhiainen. (2010). Current and Future CO₂ Emissions From Drained Peatlands in Southeast Asia. *Biogeosciences* 7: 1505-1514
- Houghton, R.A. (2008). Carbon Flux to the Atmosphere from Land-Use Changes: 1850-2005. In *TRENDS: A Compendium of Data on Global Change*. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tenn., U.S.A.
- Hristov, A.N., J. Oh, C. Lee, R. Meinen, F. Montes, T. Ott, J. Firkins, A. Rotz, C. Dell, A. Adesogan, W. Yang, J. Tricarico, E. Kebreab, G. Waghorn, J. Dijkstra, S. Oosting. (2013). Mitigation of greenhouse gas emissions in livestock production: a review of technical options for non-CO₂ emissions. *FAO Animal Production and Health Paper*, 177.

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

- Hurt, G.C., L.P. Chini, S. Frohling, R.A. Betts, J. Feddema, G. Fischer, J.P. Fisk, K. Hibbard, R.A. Houghton, A. Janetos, C.D. Jones, G. Kindermann, T. Kinoshita, K.K. Goldewijk, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D.P. van Vuuren, Y.P. Want. (2011). Harmonization of land-use scenarios for the period 1500-2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. *Climatic Change* 109:117-161
- IEA. (2012). CO₂ Emissions from Fossil Fuel Combustion.
- IPCC, 2011: Summary for Policymakers. In: IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlomer, C von Stechow (eds)] Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.
- James, S.J., C. James. (2010). The Food Cold-Chain and Climate Change. Food Research International
- Joosten, H., D. Clarke. (2002). Wise use of mires and peatlands. International Mire Conservation Group and International Peat Society.
- Kissinger, G., M. Herold, V. De Sy. (2012). Drivers of Deforestation and Forest Degradation.
- Kool, A., M. Marinussen, H. Blonk. (2012). LCI data for the calculation tool Feedprint for greenhouse gas emissions of feed production and utilization: GHG emissions of N, P and K fertilizer production. Blonk Consultants.
- Ladha, J.K., H. Pathak, T.J. Krupnik, J. Six, C. van Kessel. (2005). Efficiency of Fertilizer Nitrogen in Cereal Production: Retrospects and Prospects. *Advances in Agronomy* 87
- Lal, R. (2004). Soil Carbon Sequestration Impacts on Global Climate Change and Food Security. *Science*, 304.1623-1627
- Lambin, E.F., H.K. Gibbs, L. Ferrerira, R. Grau, P. Mayaux, P. Meyfroidt, D.C. Morton, T.K. Rudel, I. Gasparri, J. Munger. (2013). Estimating the world’s potentially available cropland using a bottom-up approach. *Global Environmental Change* <http://dx.doi.org/10.1016/j.gloenvcha.2013.05.005>.
- Lambin, E.F., P. Meyfroidt. (2011). Global land use change, economic globalization, and the looming land scarcity. *PNAS* 108(9):3465-3472.
- Linquist, B., K. Jan van Groenigen, M.A. Adviento-Borbe, C. Pittelkow, K. van Kessel. (2012). An Agronomic Assessment of Greenhouse Gas Emissions From Major Cereal Crops. *Global Change Biology* 18: 194-209
- Lipinski, B., C. Hanson, J. Lomax, L. Kitinoja, R. Waite, T. Searchinger. (2013). Reducing Food Loss and Waste.
- Ministry of Environment and Forests, India. (2012). India. Second national communication to the United Nations Framework Convention on Climate Change.
- Moran, D., M. Macleod, E. Wall, V. Eory, G. Pajot, R. Matthews, A. McVittie, A. Barnes, B. Rees, A. Moxey, A. Williams, P. Smith. (2008). UK Marginal Abatement Cost Curves for the Agriculture and Land Use, Land-Use Change and Forestry Sectors out to 2022, with Qualitative Analysis of Options to 2050. Project reference: RMP4950
- Mueller, N.D., J.S. Gerber, M. Johnston, D.K. Ray, N. Ramankutty, J.A. Foley. (2012). Closing yield gaps through nutrient and water management. *Nature* doi:10.1038/nature11420.

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

- National Development and Reform Commission, China. (2012). China. The second national communication on climate change of the People's Republic of China.
- Nelson, A., International Rice Research Institute. (Personal communication; 2013). Personal communication. Spreadsheet on rice management regimes by country.
- Pan, Y., R.A. Birdsey, J. Fang, R. Houghton, P.E. Kauppi, W.A. Kurz, O.L. Phillips, A. Shvidenko, S.L. Lewis, J.G. Canadell, P. Ciais, R.B. Jackson, S.W. Pacala, A.D. McGuire, S. Piao, A. Rautiainen, S. Sitch, D. Hayes. (2011). A Large and Persistent Carbon Sink in the World's Forests. *Sciences* 333:988-993
- Petersen, S., M. Blanchard, D. Chadwick, A. del Prado, N. Edouard, J. Mosquera, S. Sommer. (2013). Manure management for greenhouse gas mitigation. *Animal*, 266-282.
- Phelps, J., L.R. Carrasco, E.L. Webb, L.P. Koh, U. Pascual. (2013). Agricultural intensification escalates future conservation costs. *PNAS* 110(19): 7601-7606.
- Popp, A., H. Lotze-Campen, B. Bodirsky. (2010). Food Consumption, diet shifts and associated non-CO2 greenhouse gases from agricultural production. *Global Environmental Change* 20: 451-462
- Powlson, D.S., A.P. Whitmore, K.W.T. Goulding. (2011). Soil carbon sequestration to mitigation climate change: a critical re-examination to identify the true and the false. *European Journal of Soil Science* 62: 42-55.
- Prasad, R. (2012). Fertilizer and Manures. *Current Science* 102(6):894-898
- Ramankutty, N., J. Rhemtulla. (2012). Can intensive farming save nature? *Frontiers in Ecology* guest editorial.
- Ribaudo, M. (2011). Reducing Agriculture's Nitrogen Footprint: Are New Policy Approaches Needed?. *Amber Waves*
- Rothausen, G.S.A., D. Conway. (2011). Greenhouse-gas Emissions from Energy Use in the Water Sector. *Nature Climate Change*: 1:210-219
- Rudel, T.K., L. Schneider, M. Uriarte, B.L. Turner, R. DeFries, D. Lawrence, J. Geoghegan, S. Hecht, A. Ickewitz, E.F. Lambin, T. Birkenholtz, S. Baptista, R. Grau. (2009). Agricultural Intensification and Changes in Cultivated Areas: 1970-2005. *PNAS* 106(49):20675-20680
- Russian Federation. (2012). Russian Federation, Annex 1 Party GHG National Inventory Submission, Framework Convention on Climate Change.
- Sanchis, E., M. Ferrer, A.G. Torres, M. Cambra-Lopez, S. Calvet. (2012). Effect of Water and Straw Management Practices on Methane Emissions from Rice Fields: A Review Through Meta-Analysis. *Environmental Engineering Science* 29 (12): 1053-1062
- Secretariat for Natural Resources and Sustainable Development, Argentina. (2007). Argentina. 2da comunicación nacional de la República Argentina a la Convención Marco de las Naciones Unidas sobre Cambio Climático..
- Seufert V., N. Ramankutty, J.A. Foley. (2012). Comparing the Yields of Organic and Conventional Agriculture. *Nature* 485:229-234
- Signor, D., D.E.P. Cerri, R. Conant. (2013). N2O Emissions Due to Nitrogen Fertilizer Applications in Two Regions of Sugarcane cultivation in Brazil. *Environmental Research Letters* 8

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

- Smith, P., D. Martino, Z. Cai, D. Gwary, H. Janzen, P. Kumar, B. McCarl, S. Ogle, F. O’Mara, C. Rice, B. Scholes, O. Sirotenko (2007) Agriculture. In Climate Change 2007: Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.
- Smith, P., H. Haberl, A. Popp, K. Erb, C. Lauk, R. Harper, F. Tubiello, A. Pinto, M. Jafari, S. Sohi, O. Masera, H. Bottcher, G. Berndes, M. Bustamante, H. Ahammad, H. Clark, H. Dong, E. Elsiddig, C. Mbow, N. Ravindranath, C. Rice, C. Abad, A. Romanovskaya, F. Sperling, M. Herrero, J. House, S. Rose. (2013). How much land-based greenhouse gas mitigation can be achieved without compromising food security and environmental goals? *Global Change Biology*, 19, 2285–2302.
- Somato, E.A., R.G. Guei, N. Nguyen. (ND). Overview: Rice in Africa. CIRAD: Centre de cooperation Internationale en Recherche Agronomique pour le Developpement (France).
- Soussana, J., L.G. Barioni, T. Ben Ari, R. Conant, P. Gerber, P. Havlik, A. Ickowicz, M. Howden. (2013). Managing grassland systems in a changing climate: the search for practical solutions. Proceedings of the 22nd International Grasslands Congress 2013.
- State Ministry of Environment, Indonesia. (2010). Indonesia. Indonesia second national communication under the United Nations Framework Convention on Climate Change (UNFCCC)..
- Steinfeld, H., P. Gerber, T. Wassenaar, V. Castel, M. Rosales, C. de Haan. (2006). *Livestock’s Long Shadow: Environmental Issues and Options*. Rome: Food and Agriculture Organization of the United Nations.
- Tilman, D., C. Balzer, J. Hill, B.L. Befort. (2011). Global Food Demand and the Sustainable Intensification of Agriculture. *PNAS* 108(50):20260-20264
- Tosca, M.G., J.T. Randerson, C.S. Zender. (2013). Global impact of smoke aerosols from landscape fires on climate and the Hadley circulation. *Atmospheric Chemistry and Physics* 13: 5227-5241.
- Tubiello, F.N., M. Salvatore, S. Rossi, A. Ferrara, N. Fitton, P. Smith. (Accessed 2013). The FAOSTAT database of greenhouse gas emissions from agriculture. *Environmental Research Letters* 8 015009.
- Tweeten, L., S.R. Thompson. (2008). Long-term Global Agricultural Output Supply-Demand Balance and Real Farm and Food Prices.
- UNData online database. Accessed 2012-2013. <http://data.un.org/Default.aspx>
- UNFCCC flexible query system. United Nations Framework Convention on Climate Change. (Accessed 2013). <http://unfccc.int/di/FlexibleQueries.do>
- United Nations Food and Agriculture Organization. (2005). *Forest Resources Assessment*.
- United Nations Food and Agriculture Organization. (2010). *Forest Resources Assessment*.
- United States Department of State. (2010). *U.S. Climate Action Report 2010: Fifth National Communication of the United States of America Under the United National Framework Convention on Climate Change*.
- United States. (2012). United States, Annex 1 Party GHG National Inventory Submission.
- US EPA. Office of Atmospheric Programs, Climate Change Division, U.S. Environmental Protection Agency. (2012). *Global Anthropogenic Non-CO2 Greenhouse Gas Emissions: 1990 - 2030*.

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

- US EPA. United States Environmental Protection Agency. (2006). Non-CO2 Greenhouse Gases: International Emissions and Projections
- US EPA. United States Environmental Protection Agency. (2013). Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2011.
- USDA 2011. United States Department of Agriculture: Office of the Chief Economist, Climate Change Program Office. (2011). USDA Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008.
- Valin, H., P. Havlik, A. Mosnier, M. Herrero, E. Schmid, M. Obersteiner. (2013). Agricultural Productivity and Greenhouse Gas Emissions: Trade-offs or Synergies Between Mitigation and Food Security. *Environmental Research Letters* 8
- Van der Werf, G.R., J. Dempewolf, S.N. Trigg, J.T. Randerson, P.S. Kasibhatla, L. Giglio, D. Murdiyarso, W. Peters, D.C. Morton, G.J. Collatz, A.J. Dolman, R.S. DeFries. (2008). Climate Regulation of Fire Emissions and Deforestation in Equatorial Asia. *PNAS* 105(51); 20350-20355
- Van Groenigen, J.W., G.L. Velthof, O. Oenema, K.J. Van Groenigen, C. Van Kessel. (2010). Towards and Agronomic Assessment of N2O Emissions: A Case Study for Arable Crops. *European Journal of Soil Science* 61: 903-913
- Van Oost, K., Verstraeten, G., Doetterl, S., Notebaert, B., Wiaux, F., Broothaerts, N., Six, J. (2012). Legacy of human-induced C erosion and burial on soil-atmosphere C exchange. *Proceedings of the National Academy of Sciences in the United States of America (PNAS)* 109. 19492-19497.
- Verge, X.P.C., C. De Kimpe, R.L. Desjardins. (2007). Agricultural Production, Greenhouse Gas Emissions, and Mitigation Potential. *Agricultural and Forest Meteorology* 142: 255-269
- Vermeulen, S.J., B.M. Campbell, J.S.I. Ingram. (2012). Climate Change and Food Systems. *Annual Review of Environmental Resources* 37:195-222
- Vitousek, P.M., R. Naylor, T. Crews, M.B. David, L.E. Drinkwater, E. Holland, P.J. Johnes, J. Katzenberger, L.A. Martinelli, P.A. Matson, G. Nziguheba, D. Ojima, C.A. Palm, G.P. Robertson, P.A. Sanchez, A.R. Townsend, F.S. Zhang. (2009). Nutrient imbalances in agricultural development. *Science*, 324 (5934), 1519.
- Wakeland, W., S. Cholette, K. Venkat. (2012). *Green Technologies in Food Production and Processing*. J.I. Boye and Y. Arcand (eds.), Food Engineering Series. Springer Science+Business Media, LLC.
- Wang, W., F. Koslowski, D.R. Nayak, P. Smith, E. Saetnan, X. Ju, L. Guo, G. Han, C. de Perthuis, E. Lin, D. Moran. (2013). Greenhouse gas mitigation in Chinese agriculture: distinguishing technical and economic potentials.
- Wassmann, R., H-U. Neue, R.S. Lantin, L.V. Buendia, H. Rennenberg. (2000). Characterization of Methane Emissions from Rice Fields in Asia. I. Comparison Among Field Sites in Five Countries. *Nutrient Cycling in Agroecosystems* 58: 1-12
- Weber, C., Matthews, H.S. (2008). Food-Miles and the Relative Climate Impacts of Food Choices in the United States. *Environmental Science and Technology*, 42. 3508-3513.
- West, P.C., H.K. Gibbs, C. Monfreda, J. Wagner, C.C. Barford, S.R. Carpenter, J. Foley. (2010). Trading Carbon for Food: Global Comparison of Carbon Stocks vs. Crop Yields on Agricultural Land. *PNAS* 107(46):19645-19648

Technical annex to “Strategies for Mitigating Climate Change in Agriculture”

West, P., Institute on the Environment, University of Minnesota (personal communication; 2013). Data related to crop-specific emissions and nitrogen application.

Yagi, K., H. Tsuruta, K. Minami. (1997). Possible options for mitigating methane emissions from rice cultivation. *Nutrient Cycling in Agroecosystems* 49: 213-220.

Yan, X., H. Akiyama, K. Yagi, H. Akimoto. (2009). Global estimations of the inventory and mitigation potential of methane emissions from rice cultivation conducted using the 2006 Intergovernmental Panel on Climate Change Guidelines. *Global Biogeochemical Cycles* 23.

Yan, X., K. Yagi, H. Akiyama, H. Akimoto. (2005). Statistical analysis of the major variables controlling methane emissions from rice fields. *Global Change Biology* 11: 1131-1141.

Zhang Z., Z. Dou, P. He, X. Ju, D. Powlson, D. Chadwick, D. Norse, Y. Lu, Y. Zhang, L. Wu, X. Chen, K. Cassman, F. Zhang. (2012). New Technologies Reduce Greenhouse Gas Emissions from Nitrogenous Fertilizer in China. *PNAS* 110(21):8375-8380.