

## CURRICULUM VITAE

### **Mark J. Easter**

Ecological Consultant  
Ft. Collins, Colorado

### **Education**

- 1982 B. Sc. Electrical Engineering, Purdue University, West Lafayette, Indiana  
1991 M. Sc. Botany, University of Vermont, Burlington. Thesis: *Response of Herbaceous Plants to Canopy Disturbance in the Lower Montane Forest of Camels Hump Mountain, Vermont.*

### **Professional experience**

- 2023-Present Ecological Consultant at Farm, Table & Sky: greenhouse gas accounting in agriculture, forestry, & other land uses  
2021-2023 Director of Carbon Science and Modeling, Indigo Agriculture  
1994-2021 Senior Research Associate, Natural Resource Ecology Laboratory and The Center for Ecological Management of Military Lands, Colorado State University, Fort Collins  
1993-1994 Technician, Rocky Mountain Experiment Station, U.S. Forest Service, Flagstaff, AZ  
1990-1993 Research Associate, Department of Forest Science, Oregon State University, Corvallis  
1988-1990 Graduate Assistant, Department of Botany, University of Vermont, Burlington  
1986-1988 Community Organizer and Volunteer Recruiter, American Red Cross Blood Services, Dedham, MA  
1982-1986 Program Manager and Electronic Engineer, U.S. Air Force, Hanscom Air Force Base, MA

### **Major Responsibilities**

***Principal at Farm, Table & Sky Consulting.*** Supporting the non-for-profit and other sectors with greenhouse gas accounting in agriculture, forestry, & other land uses.

***Director of Carbon Science and Modeling, Indigo Agriculture:*** Led work to fully integrate the DayCent model and other empirical models into the Indigo Agriculture Voluntary Carbon Market and Scope 3 Programs.

***Project Coordinator and Technical Lead, NRCS COMET-Farm Project:*** The COMET-Farm Project, funded by the USDA Natural Resource Conservation Service (NRCS) and the U.S. Department of Agriculture (USDA) Climate Change Program Office (CCPO) is a decision support system allowing farmers, ranchers and natural resource professionals to assess the greenhouse gas benefits of conservation practices, including tillage reduction, fertilizer management, organic matter additions, use of cover crops, and installing agroforestry systems. The tool can be accessed at [www.comet-farm.com](http://www.comet-farm.com).

***Technical lead, GEF Carbon Benefits Project:*** The Carbon Benefits Project (CBP), funded by the Global Environment Facility and implemented by the United Nations Environment Programme (UNEP) is a new solution to a persistent problem: how to inventory terrestrial carbon and greenhouse gas emissions, particularly on complex landscapes. The CBP project developed a cost-effective system that integrates the latest remote sensing technology and analysis, ground based measurement, and rigorous statistical analysis to allow web-based project- and regional-scale assessments of the greenhouse gas balance of land use and management practices and land use change. The system can be accessed at [http://www.unep.org/cbp\\_pim/Person/LogOn](http://www.unep.org/cbp_pim/Person/LogOn).

***Database Manager/Modeler/Analyst, Paustian Research Group:*** The NREL at CSU is under contract with the U.S. Environmental Protection Agency (EPA) to estimate greenhouse gas flux rates from tillage agriculture. Our research results are included in the U.S. Government's yearly report of greenhouse gas emissions to the United Nations under the U.N. Framework Convention on Climate Change. We model agricultural land use and management nationwide using a variety of input datasets and report greenhouse gas flux rates every year.

***Database Manager/Programmer/Analyst, GEFSOC project:*** The GEFSOC system was developed in collaboration with an international team of scientists to allow cost-effective inventories of soil and biomass carbon in agriculture, forestry and other land uses. The system has been used for terrestrial carbon inventories in Brazil, India, Italy, Jordan, Kenya, and Spain. The system is open-source and available online

(<http://www.nrel.colostate.edu/projects/gefsoc-uk/index.htm>).

## Publications – Refereed Journals:

- Brummitt, Charles D., Cara A. Mathers, Rebecca Arundale Keating, Katherine O’Leary, **Mark Easter**, Mark A. Friedl, Max DuBuisson, et al. “Solutions and Insights for Agricultural Monitoring, Reporting, and Verification (MRV) from Three Consecutive Issuances of Soil Carbon Credits.” *Journal of Environmental Management* 369 (October 2024): 122284. <https://doi.org/10.1016/j.jenvman.2024.122284>.
- Mathers, Cara, Christopher K. Black, Brian D. Segal, Ram B. Gurung, Yao Zhang, **Mark J. Easter**, Stephen Williams, et al. “Validating DayCent-CR for Cropland Soil Carbon Offset Reporting at a National Scale.” *Geoderma* 438 (October 2023): 116647. <https://doi.org/10.1016/j.geoderma.2023.116647>.
- Lemma, Bekele, Paul H. Evangelista, Mathew Stermer, Nicholas E. Young, Eleanor Milne, and **Mark Easter**. Greenhouse Gas Mitigation Potential in Smallholder Agroecosystem of Southern Ethiopia. *Journal of Environmental Management* 325 (January 2023): 116611. <https://doi.org/10.1016/j.jenvman.2022.116611>.
- Field, John L., Yao Zhang, Ernie Marx, Kenneth J. Boote, **Mark Easter**, Sheeja George, Nahal Hoghooghi, Glenn Johnston, Farhad Hossain Masum, Michael J. Mulvaney, Keith Paustian, Ramdeo Seepaul, Amy Swan, Steve Williams, David Wright and Puneet Dwivedi. 2022. Modeling Yield, Biogenic Emissions, and Carbon Sequestration in Southeastern Cropping Systems With Winter Carinata. *Frontiers in Energy Research*. doi: 10.3389/fenrg.2022.837883.
- Xia Zhu-Barker, **Mark Easter**, Amy Swan, Mary Carlson, Lucas Thompson, William R. Horwath, Keith Paustian and Kerri L. Steenwerth. 2019. Soil Management Practices to Mitigate Nitrous Oxide Emissions and Inform Emissions Factors in Arid Irrigated Specialty Crop Systems. *Soil Systems*. doi:10.3390/soilsystems3040076
- Field, J.L., Samuel Evans, Ernie Marx, **Mark Easter**, Paul Adler, Thai Dinh, Bryan Wilson, and Keith Paustian. 2018. High resolution techno-ecological modeling of a bioenergy landscape to identify climate mitigation opportunities in cellulosic ethanol production. *Nature Energy*. <https://doi.org/10.1038/s41560-018-0088-1>.
- Field, J. L., E. Marx, **M. Easter**, P. R. Adler & K. Paustian (2016) Ecosystem model parameterization and adaptation for sustainable cellulosic biofuel landscape design. *Global Change Biology Bioenergy*, 8, 1106-1123.
- Sanderson, John S., Curtis Beutler, Joel R. Brown, Indy Burke, Teresa Chapman, Richard T. Conant, Justin D. Derner, **Mark Easter**, et al. “Cattle, Conservation, and Carbon in the Western Great Plains.” *Journal of Soil and Water Conservation* 75, no. 1 (2020): 5A-12A. <https://doi.org/10.2489/jswc.75.1.5A>.
- Ziegler, Justin, Adam Chambers, Amy Swan, Grant Domke, James Brandle, Keith Paustian, **Mark Easter**, Marlen Eve, and William Ballesteros. (2016). A model for estimating windbreak carbon within COMET-Farm. *Agroforestry systems*, 90(5) p. 875-887.
- Brandani, CB, TF Abbruzzini, S. Williams, **M. Easter**, CEP Cerri, K. Paustian. 2015. Simulation of management and soil interactions impacting SOC dynamics in sugarcane using the CENTURY Model. *Global Change Biology Bioenergy* 7(4): 646-657.
- Wang, YL, CY Zhao, QL Ma, YK Li, HJ Jing, T Sun, E. Milne, **M. Easter**, K. Paustian, HWA Yong, J. McDonagh. 2015. Carbon benefits of wolfberry plantation on secondary saline land in Jingtai oasis, Gansu – A case study on application of the CBP model. *Journal of Environmental Management* 157: 303-310.
- Sheehan, J. J., P. R. Adler, S. J. Del Grosso, **M. Easter**, W. Parton, K. Paustian, and S. Williams. 2014. CO2 emissions from crop residue-derived biofuels. *Nature Climate Change* 4 (11):932-933.
- Milne, E., H. Neufeldt, T. Rosenstock, M. Smalligan, C. E. Cerri, D. Malin, **M. Easter**, M. Bernoux, S. Ogle, F. Casarim, T. Pearson, D. N. Bird, E. Steglich, M. Ostwald, K. Deneff & K. Paustian (2013) Methods for the quantification of GHG emissions at the landscape level for developing countries in smallholder contexts. *Environmental Research Letters*, 8, 9.
- Alvaro-Fuentes, J., **M. Easter**, and K. Paustian. 2012. Climate change effects on organic carbon storage in agricultural soils of northeastern Spain. *Agriculture Ecosystems & Environment* 155:87-94.
- Lokupitiya, E., K. Paustian, **M. Easter**, S. Williams, O. Andren & T. Katterer (2012) Carbon balances in US croplands during the last two decades of the twentieth century. *Biogeochemistry*, 107, 207-225.
- Paustian, K., J. Schuler, K. Killian, A. Chambers, S. Del Grosso, **M. Easter**, J. Alvaro-Fuentes, R. Gurung, G. Johnson, M. Merwin, S. Ogle, C. Olson, A. Swan, S. Williams & R. Vining. 2012. *COMET2.0-Decision Support System for Agricultural Greenhouse Gas Accounting*. San Diego: Elsevier Academic Press Inc.
- Ogle, S. M., F. J. Breidt, **M. Easter**, S. Williams, K. Killian, and K. Paustian. 2010. Scale and uncertainty in modeled soil organic carbon stock changes for US croplands using a process-based model. *Global Change*

Biology 16 (2):810-822.

- van Wesemael, B., K. Paustian, J. Meersmans, E. Goidts, G. Barancikova, and **M. Easter**. 2010. Agricultural management explains historic changes in regional soil carbon stocks. *Proceedings of the National Academy of Sciences of the United States of America* 107 (33):14926-14930.
- Keith Paustian, John Brenner, **Mark Easter**, Kendrick Killian, Stephen Ogle, Carolyn Olson, Jill Schuler, Roel Vining, and Steve Williams. 2009. Counting carbon on the farm: Reaping the benefits of carbon offset programs. *J Soil Water Cons* 64(1) 36A-40A.
- Shrestha, B. M., S. Williams, **M. Easter**, K. Paustian & B. R. Singh (2009) Modeling soil organic carbon stocks and changes in a Nepalese watershed. *Agriculture Ecosystems & Environment*, 132, 91-97.
- Ogle, S. M., F. J. Breidt, **M. Easter**, S. Williams, and K. Paustian. 2007. An empirically based approach for estimating uncertainty associated with modelling carbon sequestration in soils. *Ecological Modelling* 205 (3-4):453-463.
- Conant, R. T., **M. Easter**, K. Paustian, A. Swan, and S. Williams. 2007. Impacts of periodic tillage on soil C stocks: A synthesis. *Soil & Tillage Research* 95 (1-2):1-10.
- Parton, W.J., **M. Easter**, D. Ojima, M.P. Gutmann and S.A. Williams. 2005. Ecological impact of historical land-use patterns in the Great Plains: a methodological assessment. *Ecological applications* 15(6) p. 1915-1928.
- Gray, A.N., T.A. Spies, and **M.J. Easter**. 2002. *Microclimatic and soil moisture responses to gap formation in coastal Douglas-fir forests*. *Can. j. for. res.* v. 32 (2), p. 332-343.
- Easter, M.J.** and T.A. Spies. 1994. *Using hemispherical photography for estimating photosynthetic photon flux density under canopies and in gaps in Douglas-fir forests of the Pacific Northwest*. *Can. j. for. res.* v. 24 (10) p. 2050-2058.
- Perkins, T.D., R.M. Klein, G.J. Badger, and **M.J. Easter**. 1992. *Spruce-fir decline and gap dynamics on Camels Hump, Vermont*. *Can J For Res J Can Rech For Apr* 1992. v. 22 (4) p. 413-422.
- Perkins, T.D., R.M. Klein, **M.J. Easter**, M.T. Hemmerlein, G.J. Badger, H.W. Vogelmann. *Climatic measurements on Camels Hump, Vermont, 1988-1990*. 1991. Research report - Vermont Agricultural Experiment Station. June 1991. (62) 55 p.

### Special Reports:

- Easter, Mark**, Matthew Stermer, Amy Swan, Mary Carlson and Keith Paustian. (Submitted, in review). Boulder County Carbon Sequestration Pilot Feasibility Study. Prepared for Boulder County and the City of Boulder, Colorado.
- Easter, Mark**, Amy Swan, and Steve Williams. 2014. Greenhouse Gas Inventory from Agriculture, Forestry and Other Land Uses for Boulder County, Colorado Parks and Open Space. Prepared for Boulder County, Colorado.
- Easter, Mark**, Amy Swan, Steve Williams and Keith Paustian. 2013. Greenhouse Gas Emissions Inventory for Land Use, Land Use Change, and Agriculture in Johnson County, Kansas. Prepared for Johnson County, Kansas.
- Easter, Mark**, Amy Swan, Steve Williams and Keith Paustian. 2011. Greenhouse Gas Emissions Inventory for Land Use, Land Use Change, and Agriculture in Summit County, Utah, 1990-2009. Prepared for Summit County, Utah.
- Easter, Mark**, Amy Swan, Steve Williams and Keith Paustian. 2008. Greenhouse Gas Emissions Inventory from Land Use, Land Use Change, and Agriculture in La Plata County, Colorado, 1990-2006. Prepared for La Plata County, Colorado.
- Easter, M.**, P. Douglas, N. Hastings, M. Arnett, L. Metz and R. Brozka. *Flora of F.E. Warren Air Force Base. Laramie County, Wyoming*. 1996. The Center for Ecological Management of Military Lands, Colorado State University, Fort Collins, CO 80523. TPS 96-3.

### Book Chapters and Proceedings:

- Smith, P., J. Brenner, K. Paustian, G. Bluhm, J. Cipra, **M. Easter**, E.T. Elliott, K. Killian, D. Lamm, J. Schuler and S. Williams. 2002. *Quantifying the change in greenhouse gas emissions due to natural resource*

*conservation practice application in Indiana*. Final report to the Indiana Conservation Partnership. Colorado State University Natural Resource Ecology Laboratory and USDA Natural Resources Conservation Service, Fort Collins, CO, USA.

Brenner, J., K. Paustian, G. Bluhm, J. Cipra, **M. Easter**, R. Foulk, K. Killian, R. Moore, J. Schuler, P. Smith, and S. Williams. 2002. *Quantifying the change in greenhouse gas emissions due to natural resource conservation practice application in Nebraska*. Final report to the Nebraska Conservation Partnership. Colorado State University Natural Resource Ecology Laboratory and USDA Natural Resources Conservation Service, Fort Collins, CO, USA.

Brenner, J., K. Paustian, G. Bluhm, J. Cipra, **M. Easter**, E.T. Elliott, T. Kautza, K. Killian, J. Schuler and S. Williams. 2001. *Quantifying the change in greenhouse gas emissions due to natural resource conservation practice application in Iowa*. Final report to the Iowa Conservation Partnership. Colorado State University Natural Resource Ecology Laboratory and USDA Natural Resources Conservation Service, Fort Collins, CO, USA.

### **Essays/Edited Books/Special Issues:**

**Easter, M.** The Blue Plate: A Food Lovers Guide to Climate Change. Patagonia Books, publication scheduled for early 2024.

**Easter, M.** The Value of In-Stream Flows: An Interview with Mark Easter. 2012. Matterhorn, Matter Publishing, Fort Collins, CO. <https://issuu.com/wolverinefarm/docs/matterhornspringissue2012>

**Easter, M.** The lady's last dance. 2007. In Wockner, Gary and Laura Pritchett (eds), *Pulse of the River: Colorado Writers Speak for the Endangered Cache la Poudre*. Johnson Books, 3005 Center Green Drive, Suite 220, Boulder, CO 80301.

**Easter, M.**, Paustian, K., Killian, K., Williams, S., Feng, T., Al Adamat, R., Batjes, N.H., Bernoux, M., Bhattacharyya, T., Cerri, C.C., Cerri, C.E.P., Coleman, K., Falloon, P., Feller, C., Gicheru, P., Kamoni, P., Milne, E., Pal, D.K., Powlson, D.S., Rawajfih, Z., Sessay, M., Wokabi, S., 2007, The GEFSOC soil carbon modelling system: a tool for conducting regional-scale soil carbon inventories and assessing the impacts of land use change on soil carbon. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 13-25.

Milne, E., Al-Adamat, R., Batjes, N.H., Bernoux, M., Bhattacharyya, T., Cerri, C.C., Cerri, C.E.P., Coleman, K., **Easter, M.**, Falloon, P., Feller, C., Gicheru, P., Kamoni, P., Killian, K., Pal, D.K., Paustian, K., Powlson, D., Rawajfih, Z., Sessay, M., Williams, S., Wokabi, S., 2007. National and sub national assessments of soil organic carbon stocks and changes: the GEFSOC modelling system. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 3-12.

Al-Adamat, R., Rawajfih, Z., **Easter, M.**, Paustian, K., Coleman, K., Milne, E., Falloon, P., Powlson, D.S., Batjes, N.H., 2007. Predicted soil organic carbon stocks and changes in Jordan between 2000 and 2030 made using the GEFSOC Modelling System. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 35-45.

Cerri, C.E.P., **Easter, M.**, Paustian, K., Killian, K., Coleman, K., Bernoux, M., Falloon, P., Powlson, D.S., Batjes, N.H., Milne, E., Cerri, C.C., 2007 Simulating SOC changes in 11 land use change chronosequences from the Brazilian Amazon with RothC and Century models In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 46-57.

Cerri, C.E.P., **Easter, M.**, Paustian, K., Killian, K., Coleman, K., Bernoux, M., Falloon, P., Powlson, D.S., Batjes, N.H., Milne, E., Cerri, C.C., 2007. Predicted soil organic carbon stocks and changes in the Brazilian Amazon between 2000 and 2030 In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 58-72.

Bhattacharyya, T., Pal, D.K., **Easter, M.**, Williams, S., Paustian, K., Milne, E., Chandran, P., Ray, S.K., Mandal, C., Coleman, K., Falloon, P., Powlson, D.S., Gajbhiye, K.S., 2007. Evaluating the Century C model using long-term fertilizer trials in the Indo-Gangetic Plains, India In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 73-83.

Bhattacharyya, T., Pal, D.K., **Easter, M.**, Batjes, N.H., Milne, E., Gajbhiye, K.S., Chandran, P., Ray, S.K., Mandal, C., Paustian, K., Williams, S., Killian, K., Coleman, K., Falloon, P., Powlson, D.S., 2007. Modelled soil organic carbon stocks and changes in the Indo-Gangetic Plains, India from 1980 to 2030. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. Agric. Ecosyst. Environ., 122 (1), 84-94.

Kamoni, P.T., Gicheru, P.T., Wokabi, S.M., **Easter, M.**, Milne, E., Coleman, K., Falloon, P., Paustian, K., Killian,

- K., Kihanda, F.M., 2007. Evaluation of two soil carbon models using two Kenyan long term experimental datasets In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. *Agric. Ecosyst. Environ.*, 122 (1), 95-104.
- Kamoni, P.T., Gicheru, P.T., Wokabi, S.M., **Easter, M.**, Milne, E., Coleman, K., Falloon, P., Paustian, K., 2007. Predicted soil organic carbon stocks and changes in Kenya between 1990 and 2030. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. *Agric. Ecosyst. Environ.*, 122 (1), 105-113.
- Falloon, P., Jones, C.D., Cerri, C.E.P., Al-Adamat, R., Kamoni, P., Bhattacharyya, T., **Easter, M.**, Paustian, K., Killian, K., Coleman, K., Milne, E., 2007. Climate change and its impact on soil and vegetation carbon storage in Kenya, Jordan, India and Brazil. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. *Agric. Ecosyst. Environ.*, 122 (1), 114-124.
- Milne, E., Paustian, K., **Easter, M.**, Sessay, M., Al-Adamat, R., Batjes, N.H., Bernoux, M., Bhattacharyya, T., Cerri, C.C., Cerri, C.E.P., Coleman, K., Falloon, P., Feller, C., Gicheru, P., Kamoni, P., Killian, K., Pal, D.K., Powlson, D.S., Williams, S., Rawajfih, Z., 2007. An increased understanding of soil organic carbon stocks and changes in non-temperate areas: national and global implications. In: Milne, E., Powlson, D.S., Cerri, C.E.P. (Eds.), Soil carbon stocks at regional scales. *Agric. Ecosyst. Environ.*, 112 (1), 125-136.
- Milne, E., Sessay, M.F., **Easter, M.**, Paustian, K., Killian, K. (2007) Sustainable land management through soil organic carbon management - the GEFSOC Modelling System, in *Climate and Land Degradation*, Heidelberg, Springer, 355-367, In Press (due September 2007).

## Presentations:

- Keith Paustian, Adam Chambers, **Mark Easter**, Amy Swan, Steve Williams, Shawn Archibeque, Kevin Brown, Carolyn Olson, Greg Johnson, Eleanor Campbell, Karolien Deneff, and Kris Peterson. November 2016. Farm-Level Accounting of Greenhouse Gas (GHG) Emissions: Can Farmers Be the New Carbon Accountants? Platform presentation at the ASA-CSSA-SSSA Joint Annual Meeting, Phoenix, AZ.
- Mark Easter**, Chris Dorich, and Keith Paustian. February 2017. Soil Nitrous Oxide Metamodel Update and Uncertainty Method. C-AGG COMET Tools Workshop, Fort Collins, CO.
- Amy Swan, **Mark Easter**, Steve Williams, Kevin Brown, Keith Paustian and Adam Chambers. February 2017. Carbon and Greenhouse Gas Evaluation of Conservation Practices in COMET-Planner. C-AGG COMET Tools Workshop, Fort Collins, CO.
- Easter, M.**, K. Paustian, K. Brown, C. Toureene, E. Marx, A. Swan and S. Williams. Assessing the Greenhouse Gas Balance of Farming and Ranching Practices with COMET-Farm. 2015 Annual Meeting of the Soil and Water Conservation Society, Greensboro, NC. July 2015.
- Adam Chambers, **Mark Easter**, and Debbie Reed. March 2016. COMET-Farm, Models and Other Tools: Outcomes of a Workshop to Address Reducing Market Transaction Costs. C-AGG bi-annual meeting, Sacramento, CA.
- Adam Chambers, **Mark Easter**, Amy Swan, Kevin Brown and Keith Paustian. November, 2015. Enhancing COMET-Farm and COMET-Planner for User Utility, Effectiveness, and Market Purposes. C-AGG bi-annual meeting, Washington, DC.
- Eleanor Campbell, Adriana Silva, Francisco Mello, **Mark Easter**, Christian Davies, Carlos Cerri and Keith Paustian. November 2014. Platform presentation at the ASA-CSSA-SSSA Joint Annual Meeting, Long Beach, CA.
- Keith Paustian, **Mark Easter**, Adam Chambers, Greg Johnson, Ben Sutton, Steve Williams, Kendrick Keillian, Ernie Marx, Carolyn Olson, Amy Swan, Alan Reno, and Kevin Brown. November, 2013. Farm-Scale Full GHG Accounting with COMET-Farm. Platform Presentation at the ASA-CSSA-SSSA Joint Annual Meeting, Tampa, FL.
- Keith Paustian, Eleanor Milne, Mark Easter, Brady Huskey, Amy Swan, Melannie Hartmann, and Kris Peterson. Quantifying Greenhouse Gas Mitigation Benefits for Sustainable Land Management Projects in Developing Countries. November 2011. Platform Presentation at the ASA-CSSA-SSSA Joint Annual Meeting, San Antonio, TX.
- Mark Easter**, Eleanor Milne, Becky McKeown, Ma Minxia, Dean Selby, Amy Swan, Michael Stocking, Patrick Gicheru, Kris Peterson, Niels Batjes, Stephen Williams, Peter Kamoni, Carlos Eduardo Cerri, Melannie Hartmann and Keith Paustian. November, 2010. The Carbon Benefits Project – the Component A Toolkit for Assessing the GHG Balance of Sustainable Land Management Projects. Platform Presentation at the ASA-CSSA-SSSA Joint Annual Meeting, Long Beach, CA.
- Keith Paustian, Adam Chambers, **Mark Easter**, Amy Swan, Steve Williams, Shawn Archibeque, Kevin Brown,

Carolyn Olson, Greg Johnson, Eleanor Campbell, Karolien Deneff, and Kris Peterson. November 2010. Farm-Level Accounting of Greenhouse Gas (GHG) Emissions: Estimating Whole-Farm Greenhouse Gas and Energy Footprints. Platform presentation at the ASA-CSSA-SSSA Joint Annual Meeting, Long Beach, CA.

Paustian, K., S. Ogle, R. Conant, **M. Easter**, K. Killian, A. Swan, J. Alvero-Fuentes, J. Schuler, R. Vining and M. Merwin. 2008. Field-level estimation of full GHG impacts for cropland, grassland and agroforestry. Soil Science Society of America annual meeting, Houston, TX. 10/08.

**Easter, M.** *Carbon Sequestration and Greenhouse Mitigation in Agriculture*. Nebraska & Colorado Crop Clinic on Conservation tillage and Cropping Systems, Dec 10, 2008, Sidney, NE.

**Easter, M.**, Paustian, K., Killian, K., Williams, S., Feng, T., Milne, E., Al-Adamat, R., Batjes, N.H., Bhattacharyya, T., Cerri, C.E.P., Coleman, K. and Kamoni. P. (2006). The GEFSOC Soil Carbon Modeling System- A Tool for Regional and Country Scale Soil Carbon Inventories and Land Use Assessments. 18th World Congress of Soil Science July 9-15, 2006 - Philadelphia, Pennsylvania, USA

**M. Easter**, Keith Paustian, Kendrick Killian, Ting Feng, Steve Williams, Eleanor Milne, Rida Al-Adamat, Tapas Bhattacharyya, Carlos E.P. Cerri, Peter Kamoni, and Kevin Colemand. *The GEFSOC Soil Carbon Modeling System: A Tool for Conducting Regional- and Country-Scale Soil Carbon Inventories*. 2005 Annual Meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Nov 5-10 2005, Salt Lake City, Utah.

MILNE E., Bhattacharyya T., Pal D.K., Paustian K., **Easter M.** and Williams S. A system for estimating soil organic carbon stocks and changes at the regional scale - a case study from the Indo-Gangetic Plains, India. Presented by Prof S. Nortcliff on behalf of the authors at: The International Conference on Soil, Water and Environmental Quality - Issues and Strategies. New Delhi Jan/Feb 2005.

Milne, E., **Easter, M.**, Paustian, K., Al-Adamat, R., Bhattacharyya, T. Cerri, C.E.P., Kamoni, K. Cerri, C.C., Batjes, N.H., Bernoux, M., Coleman, K., Falloon, P., Feller, C., Gicheru, P., Killian, K., Pal, D.K., Powlson, D.S., Rawajfih, Z. and Sessay, M. (2006). The GEFSOC Modelling System, A Processed-Based Modelling Approach for Spatially Explicit Estimates of Soil Organic Carbon Stock Change. 18th World Congress of Soil Science July 9-15, 2006 -Philadelphia, Pennsylvania, USA

Bhattacharyya, T., Pal, D.K., Gajbhiye, K.S., Chandran, P., Ray, S.K., Mandal, C., Easter, M., Paustian, K., Williams, S., Killian, K., Coleman, K., Falloon, P., Powlson, D.S., Batjes, N.H. and Milne, E. (2006). Model Evaluation to Assess Organic Carbon Stocks and Changes in Soils of the Indo-Gangetic Plains, India. 18th World Congress of Soil Science July 9-15, 2006 - Philadelphia, Pennsylvania, USA

Cerri, C.E.P., **Easter, M.**, Paustian, K., Killian, K., Coleman, K., Bernoux, M., Falloon, P. Powlson, D.S., Milne, E. and Cerri, C.C. (2006). Soil Organic Carbon and Land Use Change in the Brazilian Amazon: A Modeling Approach 18th World Congress of Soil Science July 9-15, 2006 - Philadelphia, Pennsylvania, USA

Milne, E., **Easter, M.**, Paustian, K., Killian, K., Williams, S., Al-Adamat, R., Bhattacharyya, T., Pal, D.K., Cerri, C.E.P., Cerri, C.C., Kamoni, P., Gicheru, P., Batjes, N.H., Bernoux, M., Feller, C., Coleman, K., Powlson, D., Falloon, P., Rawajfih, Z. And Sessay, M. 2006. A system for estimating spatially explicit soil organic carbon stocks and changes. Proceedings of The International Conference on Regional Carbon Budgets. August 16-18 Beijing, China.

Paustian, K., **M. Easter**, J. Brenner, K. Killian, and S. Williams. 2004. *Field-level forecasting of agricultural C sequestration rates*. Forum on 'Can Agriculture and Energy Partner Using Soil Carbon Sequestration to Offset Greenhouse Gases?', January 20-22, 2004, College Station, Texas.

Paustian, K., S.M. Ogle, R. Conant, J. Brenner, S. Williams, **M. Easter**, and K. Killian. 2003. *The carbon balance of US agriculture*. 2003 Annual Meeting of American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Nov. 2-6, 2003, Denver, CO.

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- Paustian, K., J. Brenner, **M. Easter**, K. Killian, and S. Williams. 2003. *Agriculture and Greenhouse Gas Mitigation – Science and Policy Issues*. Environmental Science Seminar Series, University of New Hampshire, October 23, 2003, Durham, New Hampshire.
- Paustian, K., J. Brenner, **M. Easter**, K. Killian, and S. Williams. 2003. *Monitoring and Verification: Practices and Modeling*. Carbon Measurement and Monitoring Forum, October 15-17, 2003, Manhattan, Kansas
- Paustian, K., J. Brenner, **M. Easter**, K. Killian, and S. Williams. 2003. *Agriculture and Greenhouse Gas Mitigation*. Colorado Farm Bureau Student Association, November 11, 2003, Ft. Collins, Colorado.
- Easter, M.J.**, T. Spies, and A. Gray. *Using hemispherical photography for estimating photosynthetic photon flux density under canopies and in gaps in Douglas-fir forests of the Pacific Northwest*. Annual Meeting of the Ecological Society of America, Honolulu, HA, 1994.
- Easter, M.J.**, R.M. Klein, T.D. Perkins, and M.B. Deller. *Response of Herbaceous Plants to Canopy Disturbance in the Lower Montane Forest of Camel's Hump Mountain, Vermont*. Annual Meeting of the Ecological Society of America, Snowbird, Utah. July 1993.
- Easter, M.J.**, T. Spies, and A. Gray. *Using hemispherical photography for estimating photosynthetic photon flux density under canopies and in gaps in Douglas-fir forests of the Pacific Northwest*. Department of Forest Sciences, University of Washington, December 1992.
- Easter, M.J.**, R.M. Klein, T.D. Perkins, and M.B. Deller. *Photosynthetic Response of Aster acuminatus to light conditions under disturbed forest canopy*. Annual Meeting of the Northeast Society of Plant Physiologists, Ithaca, NY, July 1990.

### **Invited Presentations:**

- Easter, Mark**, Matt Stermer, Crystal Toureene, Kevin Brown, Amy Swan, Adam Chambers and Keth Paustian. November 2017, April 2017, November 2016, April 2016. Assessing Greenhouse Gas Reductions from Carbon Farming using COMET-Planner and COMET-Farm. California Association of Regional Conservation Districts, Ontario, Merced, Swanton, and Novato, CA.
- Easter, Mark**, Amy Swan, Kevin Brown, Keith Paustian, and Adam Chambers. February 2016. An Introduction to COMET-Farm and COMET-Planner. California Climate Change Scoping Plan Workshop. Davis, CA.
- Easter, Mark**. October, 2015. A Biography of Bread: Greenhouse Gases in Agriculture. Talking Green: The Yampa Valley Sustainability Council.