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Sustainable transfer of concepts for global adaptation of smart farming to mitigate climate change due to agriculture

Ganesh C Bora
Mississippi State University, USA

Optimized the use of chemicals and fertilizer by adapting precision agriculture (PA), has positive economic and environmental impact and increase in crop yield. PA technology is component of smart farming resulting in reduction of GHG emissions, aiding in mitigating climate change impacts. Similar technology with adaptive modifications/customization can be used in developing countries. Policy makers along with scientist, academicians and progressive farmers in South and South-East Asia have substantial influence on development of modern agricultural methodologies. The technology is there and some of the large farmers have started to use it for economic benefits. The adaptation of analytic techniques with importance of Q certificate, carbon balance, livelihood adjustment due to change in climate is being studied in Bangladesh, India, Thailand and Vietnam. The impact of global change research by practicing PA technology with advanced mechanization is assessed by reducing agricultural inputs and its effect on CHG emission in these countries. The impact is substantial in terms of crop yield increase as well as on the environment.

Biography

Ganesh C Bora is an Associate Professor of Precision Agriculture and Machinery Systems at Mississippi State University in USA. He is the Chair of USDA Committee NCERA180: Precision Agriculture Technologies for Food, Fiber and Energy Production. He conducts research in mitigation of climate change, telemetry, UAS, data management, precision planting, energy savings through auto-guidance and sensing techniques for VRT, renewable energy. He was the Director of NDSU's Bio-Imaging and Sensing Center from 2010 to 2016. He has received Superior Paper and AE50 award from ASABE. He has maintained excellent global presence, received patent in Kazakhstan and conducted workshops in Vietnam, Thailand, India and Bangladesh; besides teaching Advanced Agricultural Technology Management in Kazakhstan. He has co-chaired the Mechanization and Precision Agriculture committee in Engineering and Technology Innovation for Global Food Security in South Africa. He has received his PhD from Kansas State University, Manhattan, KS, USA.

gcbora@abe.msstate.edu

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