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Santiago graduated from the Federal University of Rio de Janeiro (2003) in Meteorology, MSc in Meteorology from the University of São Paulo (2005) and PhD from the Federal University of Viçosa (2010) in agrometeorology. He was Professor at CEFET-RJ (2010-2012) and he is currently working at Brazilian Agricultural Research Corporation (Ministry of Agriculture, Livestock and Supply). He has experience in Geosciences, with emphasis in Climatology and atmosphere-biosphere modeling, acting on the following topics: thermodynamics of the atmosphere, climate modeling, atmosphere-biosphere interactions, and crop models. He has been mainly working with the representation of agriculture and natural ecosystems into land surface models (LSM), and thereby explore the impacts of land use changes on climate and water cycle.