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Organization: National Institute for Environmental Studiesl

Category: Biogeoscience

Paper ID: 57-OBG-A1257

Title: A coupled dynamic gaming simulation on global carbon management formation

Abstract:

The challenge for the carbon cycle related Earth System Science is to integrate the process understandings of coupled carbon-climate-huma system. Especially important is the in-depth understanding of the anthropogenic drivers and human responses in this system. The overa success of carbon management will depend on the effectiveness in ca emission reduction, positive environmental effects and the human we The effectiveness will be realized through a complex set of technologi organizational and institutional factors. Valuable insights can be obtai modeling different institutional structures for managing global carbon The analyses will provide insights into what works and what does not will also enable adoption of learning-by-doing strategies. In this study have constructed a simple dynamic coupled carbon-climate-human sy model. We have modeled the successive international negotiation pro carbon management as differential games. This model allow us to ass how the vulnerability of global carbon cycle, the human welfare chang to climate change and the carbon management regime will interact ea other. The simulation with this model shows that the effectiveness of regime would be critically depending on the heterogeneity and risk averseness of agents.

Presentation Mode: Oral

Keywords:

Status: Pending.

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