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Juliann Leifeld and **Richard McGehee*** (mcgehee@umn.edu). *Hopf Bifurcation for Discontinuous Vector Fields with Application to an Ocean Box Model*. Preliminary report.

Simple climate models provide a rich supply of mathematically interesting dynamical systems. A classic box model of overturning ocean circulation exhibits a phenomenon leading to a Hopf bifurcation theorem for discontinuous vector fields. (Received September 13, 2014)