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Ning Ju* (nju@okstate.edu), 401 Mathematical Sciences, Oklahoma State University, Stillwater, OK 74078. *Long time behavior of the solutions to the Primitive Equations for Oceans.*

The system of 3D Primitive Equations is a fundamental mathematical model for the large scale fluid flows occurring in the ocean and atmosphere. Recently, global well-posedness of the system was established and long-time dynamics of the solutions was well studied. In this talk, recent progress and new results for the long-time dynamics of the solutions of the system will be presented. (Received August 23, 2015)