1023-65-346   **Du X Pham*** (`dxpham@indiana.edu`), 831 East 3rd Street, Room 315, Bloomington, IN , and **Karine Adamy**. *A Finite volume implicit Euler scheme for the linearized Shallow Water equations: stability and convergence.*

The linearized Shallow Water equations are discretized in space by a finite volume method and in time by an Implicit Euler scheme. Stability and convergence of the scheme are proven. (Received September 11, 2006)