

Shallow water equations

Given in Kantha-Clayson2000[3]

$$\begin{cases} \frac{\partial H u}{\partial t} + \frac{\partial H u u}{\partial x} + \frac{\partial H u v}{\partial y} - f H v = \nu H \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right) - g H \frac{\partial \eta}{\partial x} + \frac{\tau_x^w}{\rho_0} - \frac{\tau_x^b}{\rho_0} \\ \frac{\partial H v}{\partial t} + \frac{\partial H v u}{\partial x} + \frac{\partial H v v}{\partial y} + f H u - \nu H \left(\frac{\partial^2 v}{\partial x^2} + \frac{\partial^2 v}{\partial y^2} \right) - g H \frac{\partial \eta}{\partial y} + \frac{\tau_y^w}{\rho_0} - \frac{\tau_y^b}{\rho_0} \\ \frac{\partial \eta}{\partial t} + \frac{\partial H u}{\partial x} + \frac{\partial H v}{\partial y} = 0 \end{cases}$$

Bottom stress [5]

$$\tau_b^i = \rho_0 C_D u_b \sqrt{u_b^2 + v_b^2}$$

Bottom drag coefficient [4]

$$C_D = k / \ln \left(\frac{z_0 - z_b}{z_c} \right)^2$$

z_0 roughness length

Numerical Solution Of The Shallow Water Equations

A Gutmann



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