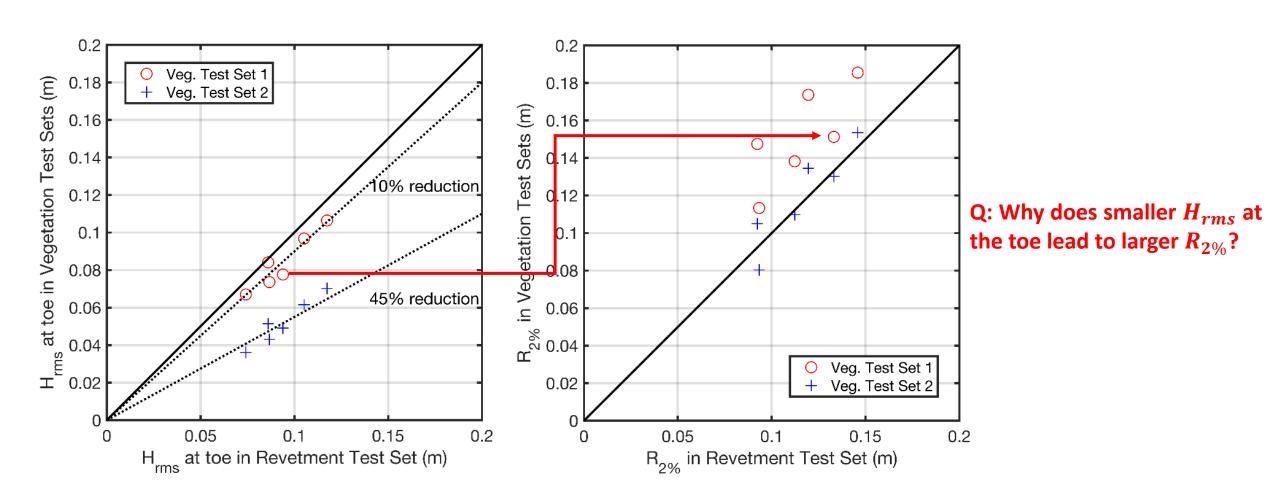
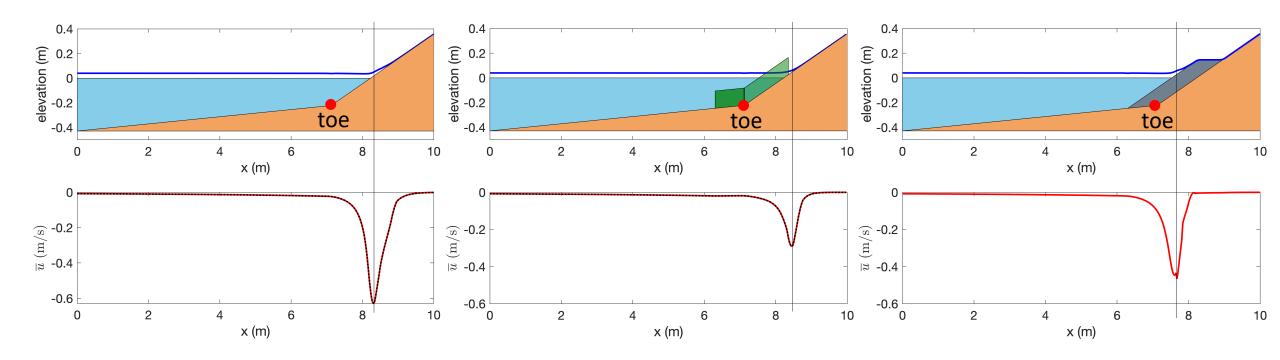
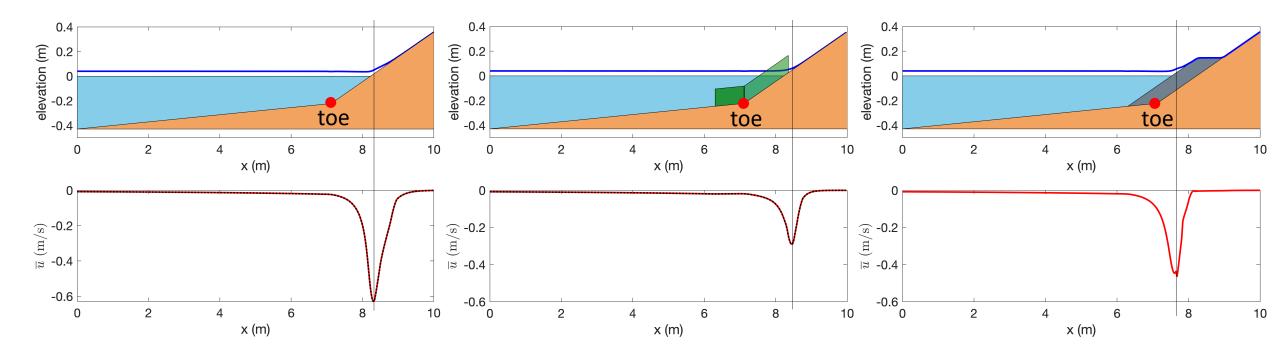
# **CSHORE** Results







- $\bar{u}$  is the time-averaged depth-averaged horizontal velocity.
- With revetment:
  - $\overline{u}$  is corrected by the time-averaged horizontal discharge velocity in the permeable layer,  $\overline{u_p}$ .  $g\frac{d\overline{\eta}}{dx} + \overline{U_p} \bigg[ \alpha_p + \sqrt{\frac{2}{\pi}} \big( \beta_2 + \beta_1 \sigma_p \big) \big( 1 + \cos^2 \theta \big) \bigg] = 0$

$$\circ$$
  $\bar{u}$  is used to calculate  $D_p$ , which is energy dissipation rate inside the permeable layer.

O  $D_p$  affects  $H_{rms}$ , which further affects  $S_{xx}$  and  $\frac{dS_{xx}}{dx}$ , and eventually, affects  $\bar{\eta}$ .

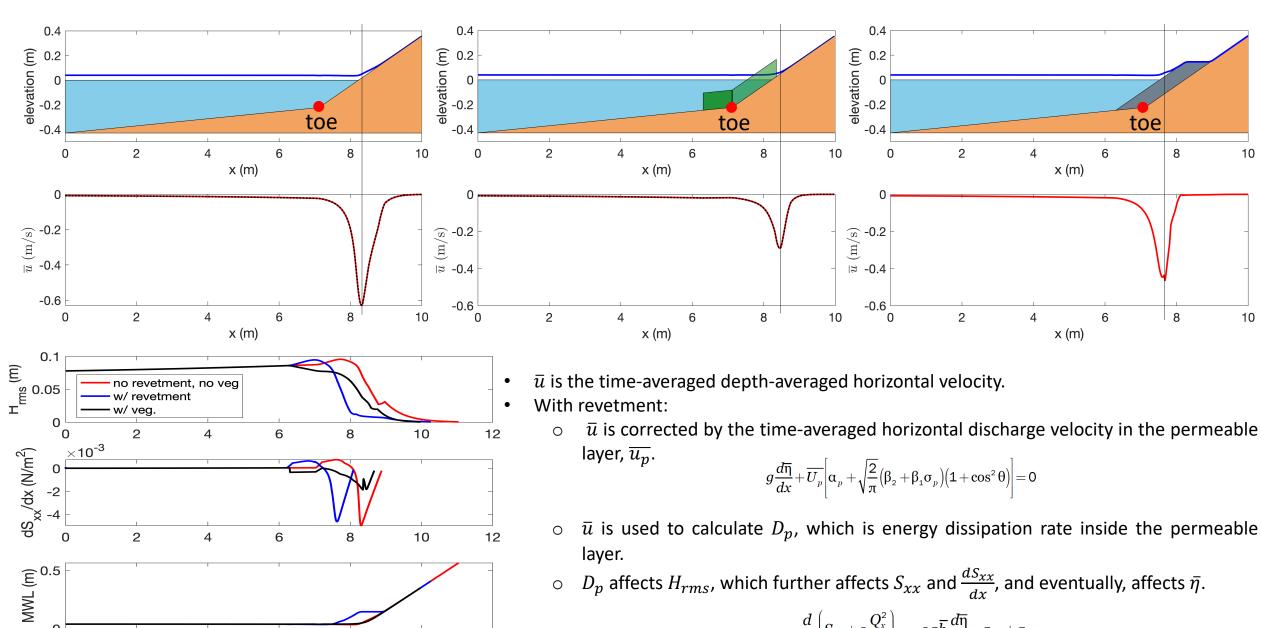
$$\frac{d}{dx}\left[S_{xx} + \rho \frac{Q_x^2}{\overline{h}}\right] = -\rho g \overline{h} \frac{d\overline{\eta}}{dx} - \tau_{bx} + \tau_{sx}$$

10

y (m)

12

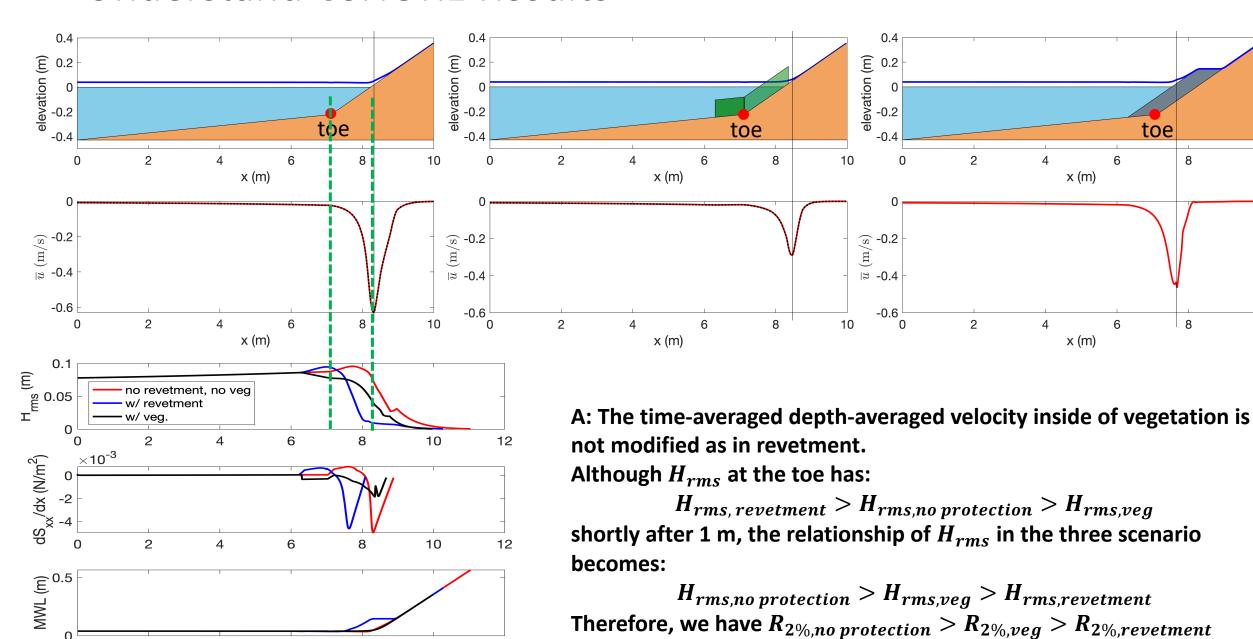
2



- $D_p$  affects  $H_{rms}$ , which further affects  $S_{xx}$  and  $\frac{dS_{xx}}{dx}$ , and eventually, affects  $\bar{\eta}$ .

$$\frac{d}{dx}\left(S_{xx} + \rho \frac{Q_x^2}{\overline{h}}\right) = -\rho g \overline{h} \frac{d\overline{\eta}}{dx} - \tau_{bx} + \tau_{sx}$$

10



10

y (m)

12

toe

10