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Are flow-vegetation interactions well represented by mimics? A case study of mangrove pneumatophores

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Highlights

- Vegetation heterogeneity has minor effects on relative within-canopy velocities
- Discrete canopy density transitions intensify and confine the canopy shear layer
- Uniform-height dowels generate stronger turbulence than variable-height canopies
- Bed shear stress in pneumatophores is around half of that in uniform-height dowels
- Canopy height variations are key for simulating turbulence and sediment dynamics

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