

1. 1D Streamflow Submodel

mean depth
reach-averaged velocity

Model

2. Hydrodynamic Submodel

near-bank velocity excess ΔU
near-bank scour depth

2. Bank Erodibility Submodel

Erodibility coefficient E

Bank Erosion "Law"

$$\zeta = E \Delta U$$

monthly Q

bankfull width
Manning's n

channel planform

tree cover percentage
bulk density

Data

