Hydrological conditions explain variation in wood density in riparian plants of south-eastern Australia

*Graphical Abstract*

We found strong variation in wood density along a single axis of hydrological variability in south-east Australian riparian plant communities. This axis integrates flood intensity and frequency with metrics of hydrological unpredictability, and can be conceptualised as a gradient of environmental harshness, with higher wood density associated with harsher conditions.

