

# Distribution of Large Wood Debris in Tidal Marshes: Preliminary Results

by  
W. Gregory Hood



*Skagit River System Cooperative*

## LWD moves



# LWD moves



# LWD moves





LWD moves and creates habitat



# Topography/elevation affects LWD

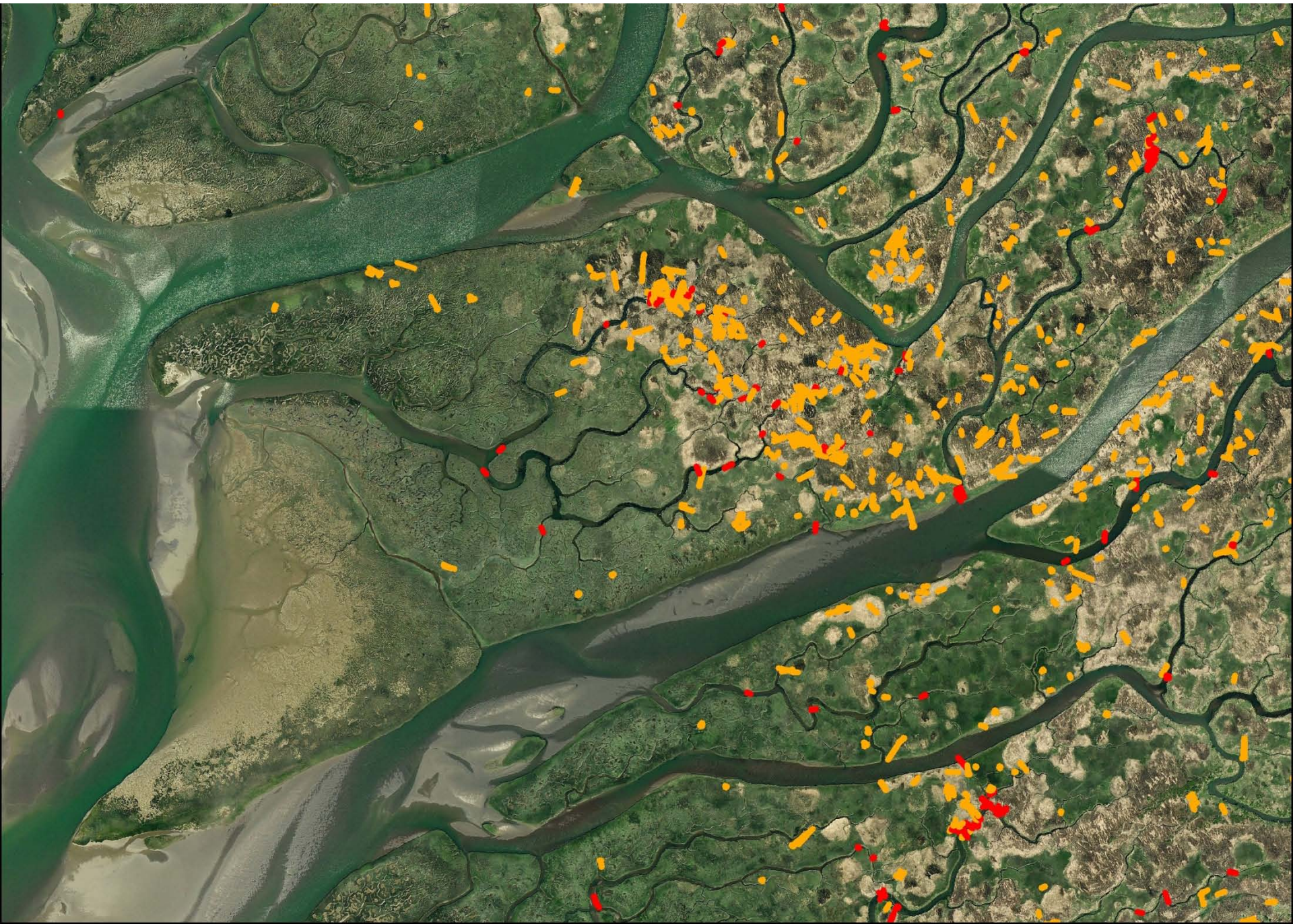


Topography/elevation affects LWD

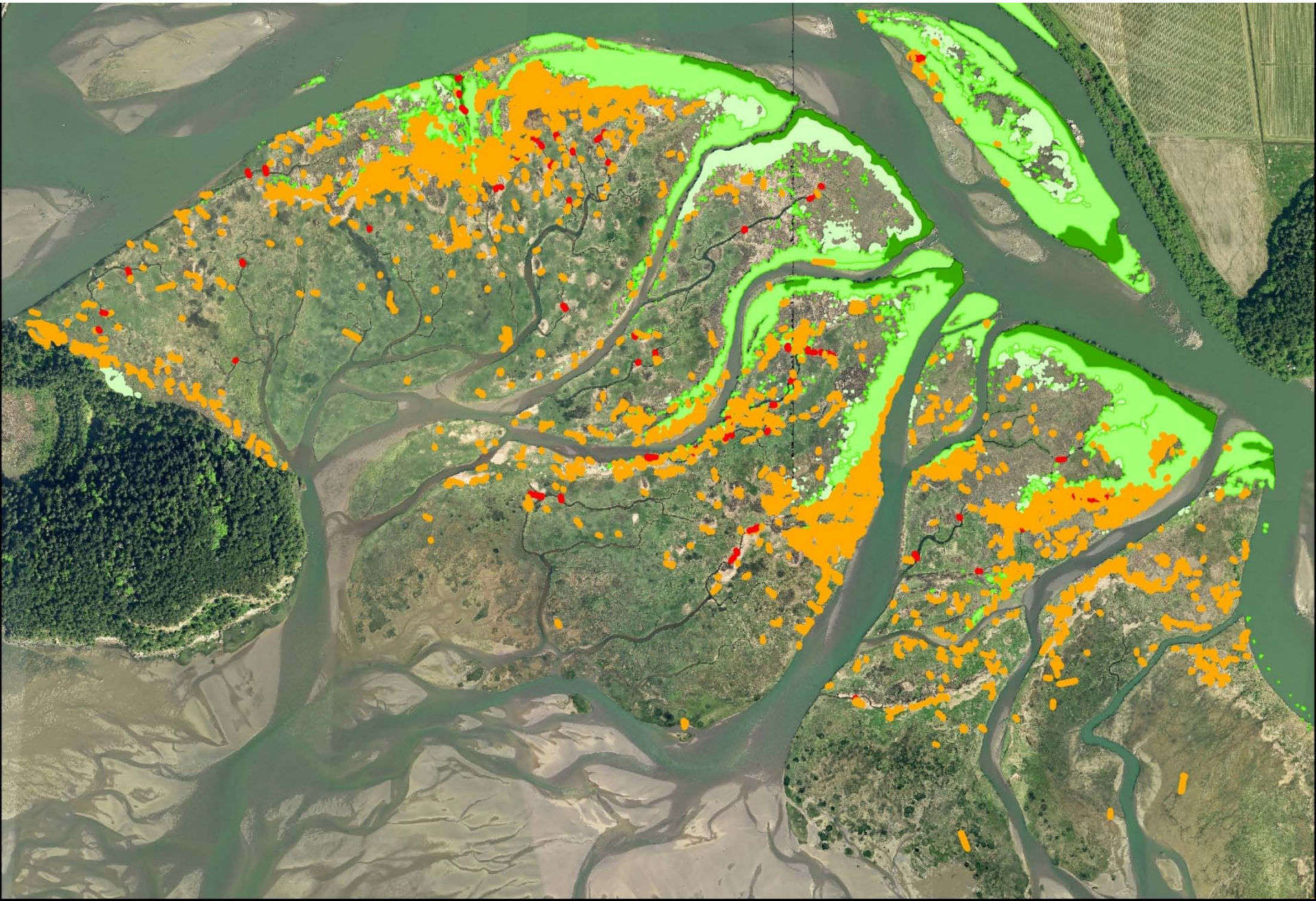




# Topography/elevation affects LWD



# Vegetation affects LWD

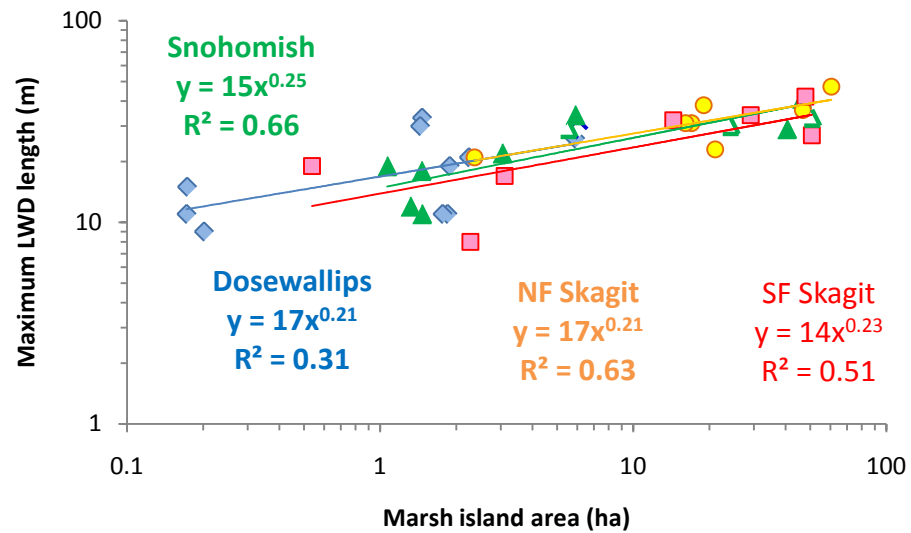
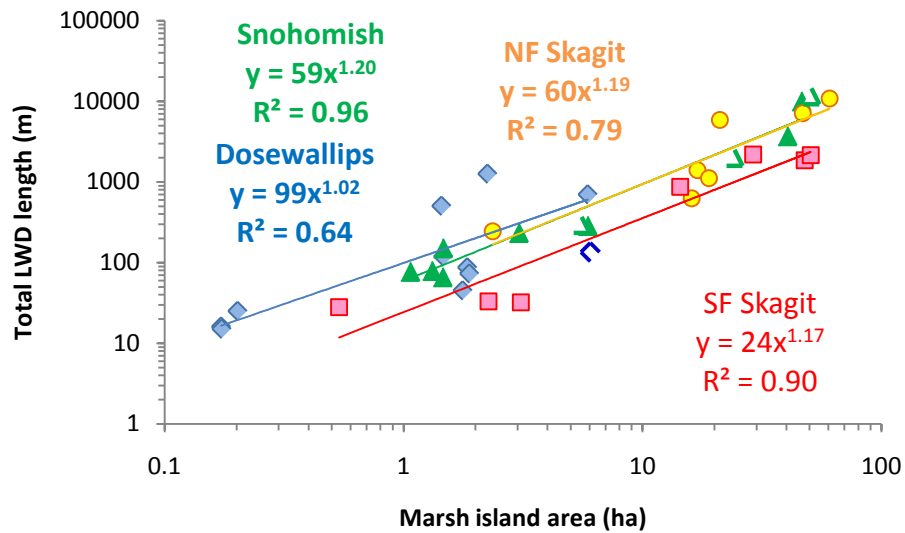
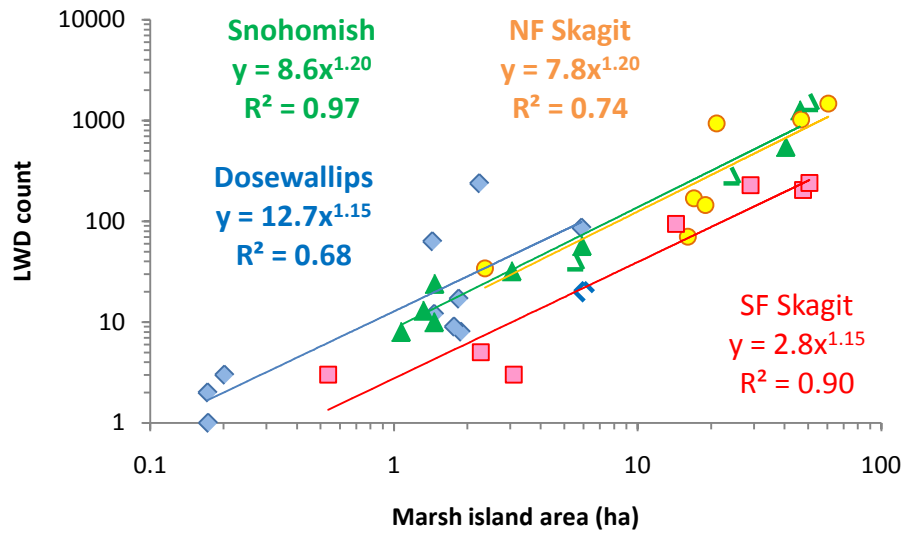


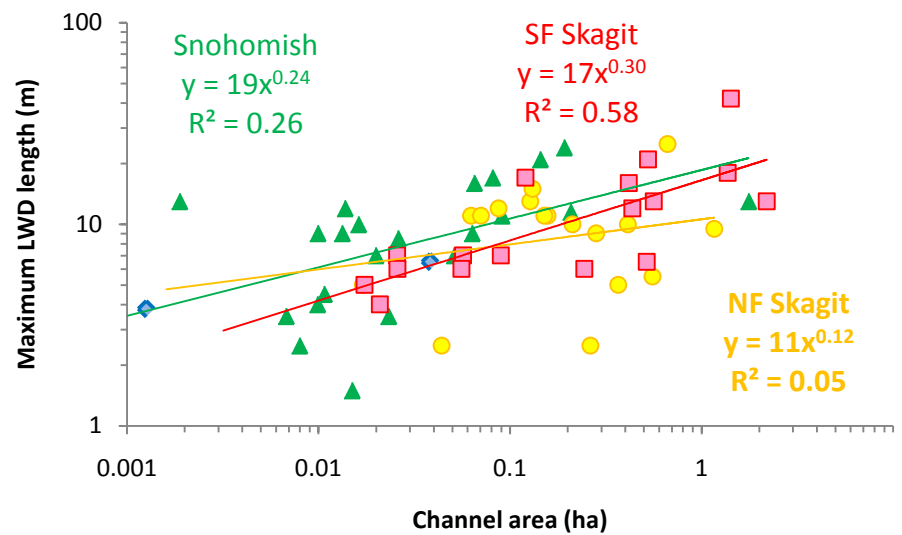
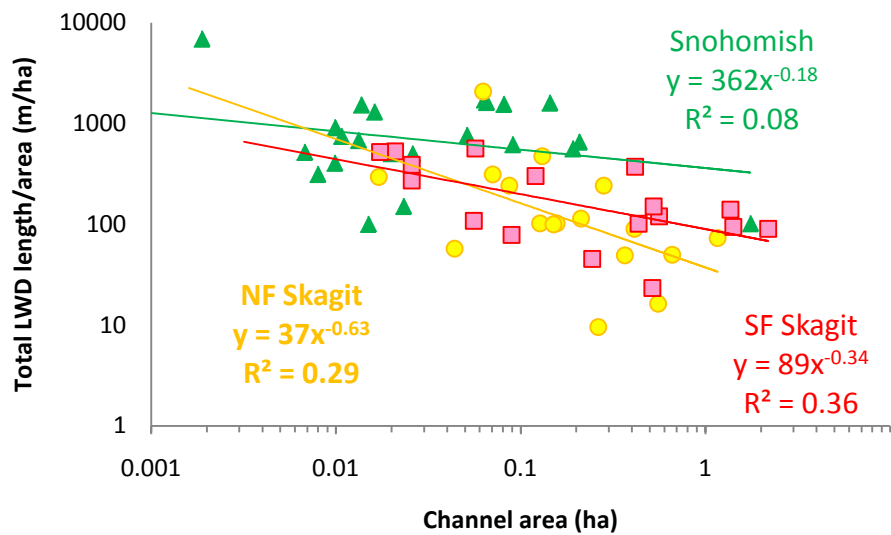
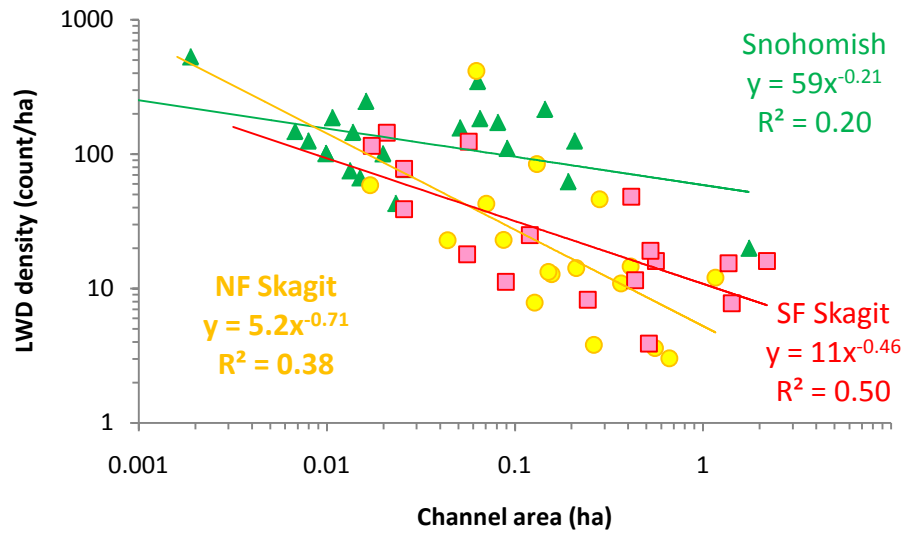
# Dikes affect LWD

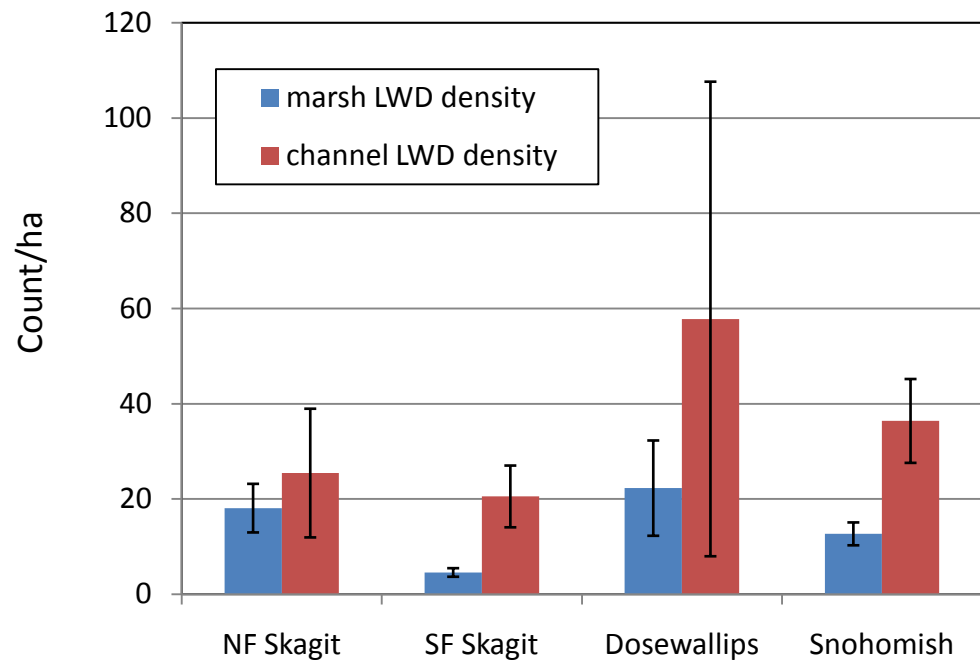


# Dikes affect LWD









# Summary

1. Wood moves
  1. Movement → disturbance → microhabitat for fish/vegetation
2. Wood distribution is affected by
  1. Topography/elevation
  2. Vegetation
  3. Fetch
  4. Dikes
  5. Proximity to distributaries
3. Wood density and size is affected by marsh island size
4. Wood density and size is affected by tidal channel size
5. There is more total wood on the marsh surface than in channels, but channel density is higher → wood is trapped in tidal channels, especially smaller channels (down to a certain size threshold)