

# Dimensionless numbers

*“Without dimensionless numbers, experimental progress in fluid mechanics would have been almost nil; It would have been swamped by masses of accumulated data” (R. Olson)*

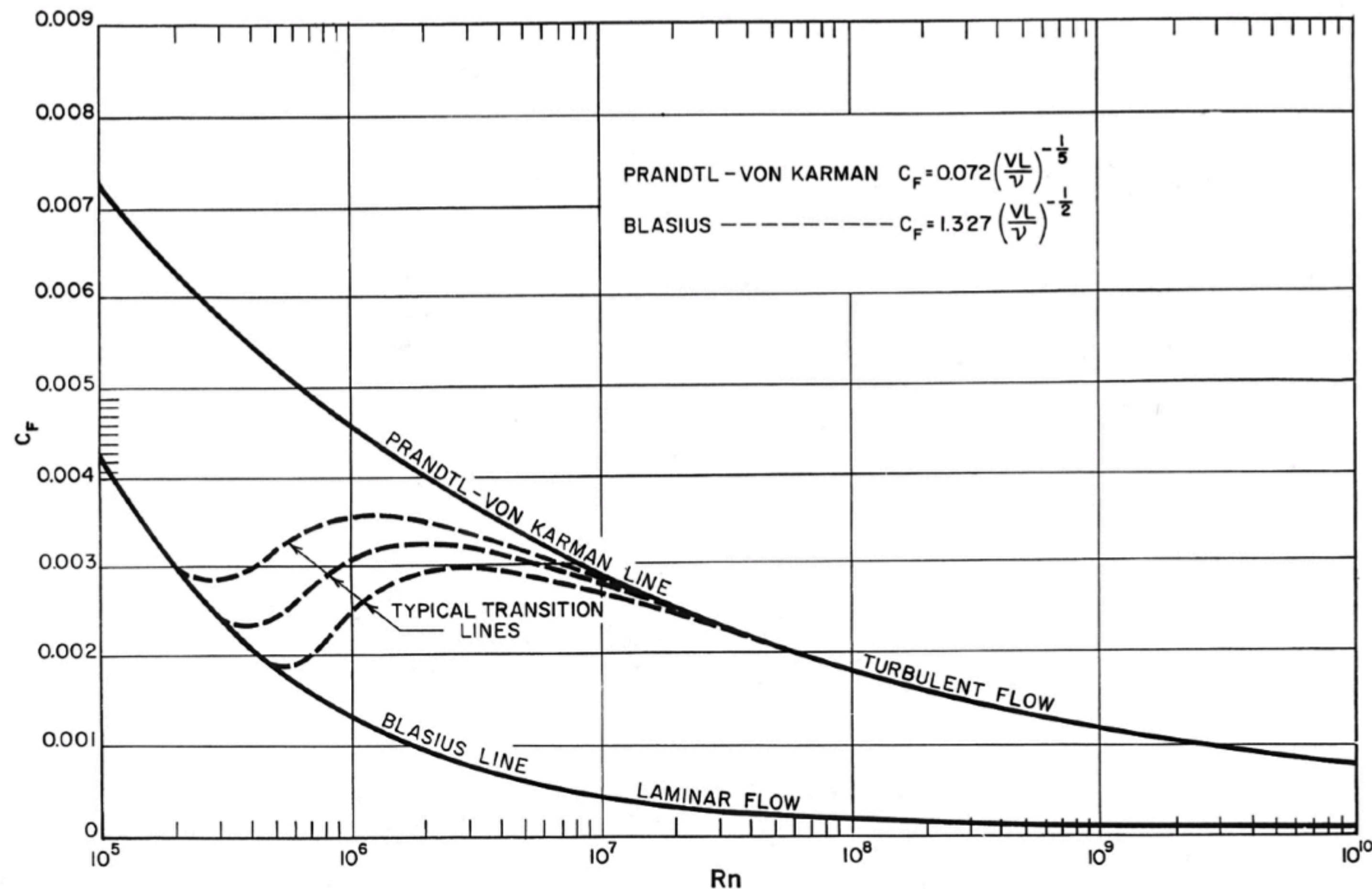


Fig. 2 Skin friction lines, turbulent and laminar flow

Cf of a flat,  
smooth plate is a  
function of Re only  
(not function of temperature, pressure or type of fluid  
as long as the fluid is Newtonian)

# Processes influencing coastal systems?

