

# GLOBAL THERMOHALINE CIRCULATION

WARM SURFACE CURRENT  
COLD DEEP-WATER CURRENT

## MECHANISM

Driven by density gradients created by surface heat and freshwater fluxes.

## SINKING REGIONS

North Atlantic and Antarctic Bottom Water formation zones.

## CYCLE TIME

Estimated 1,000 to 1,600 years for a single parcel of water to complete the circuit.