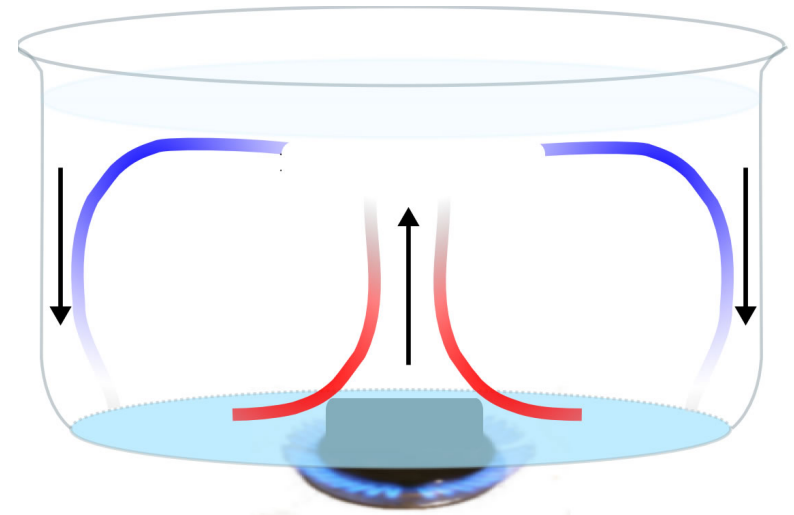
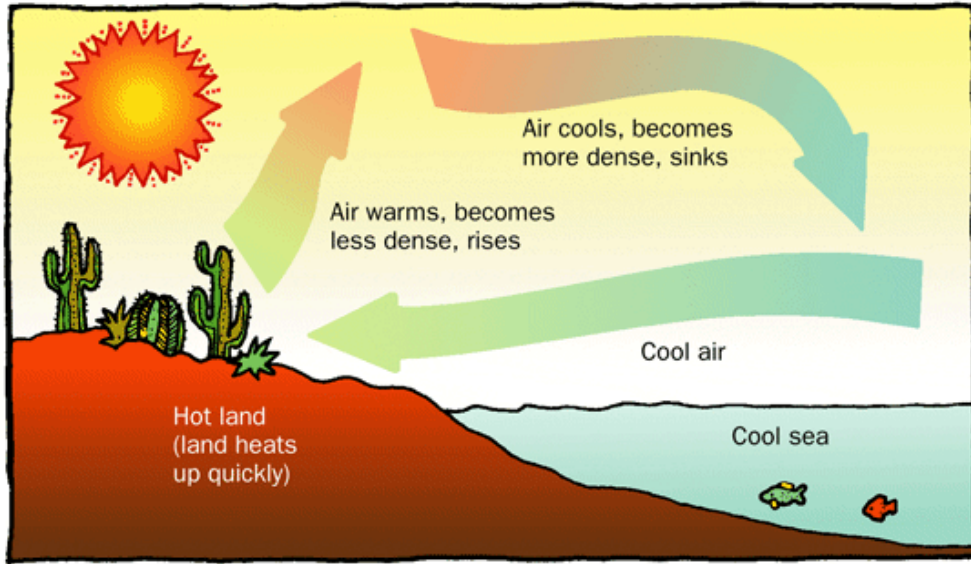


# Heat Transfer Part 3

## Convection

# Convection

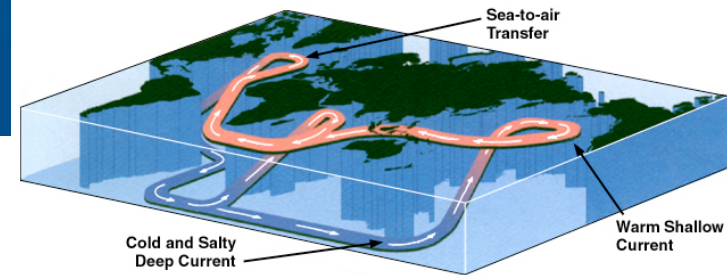
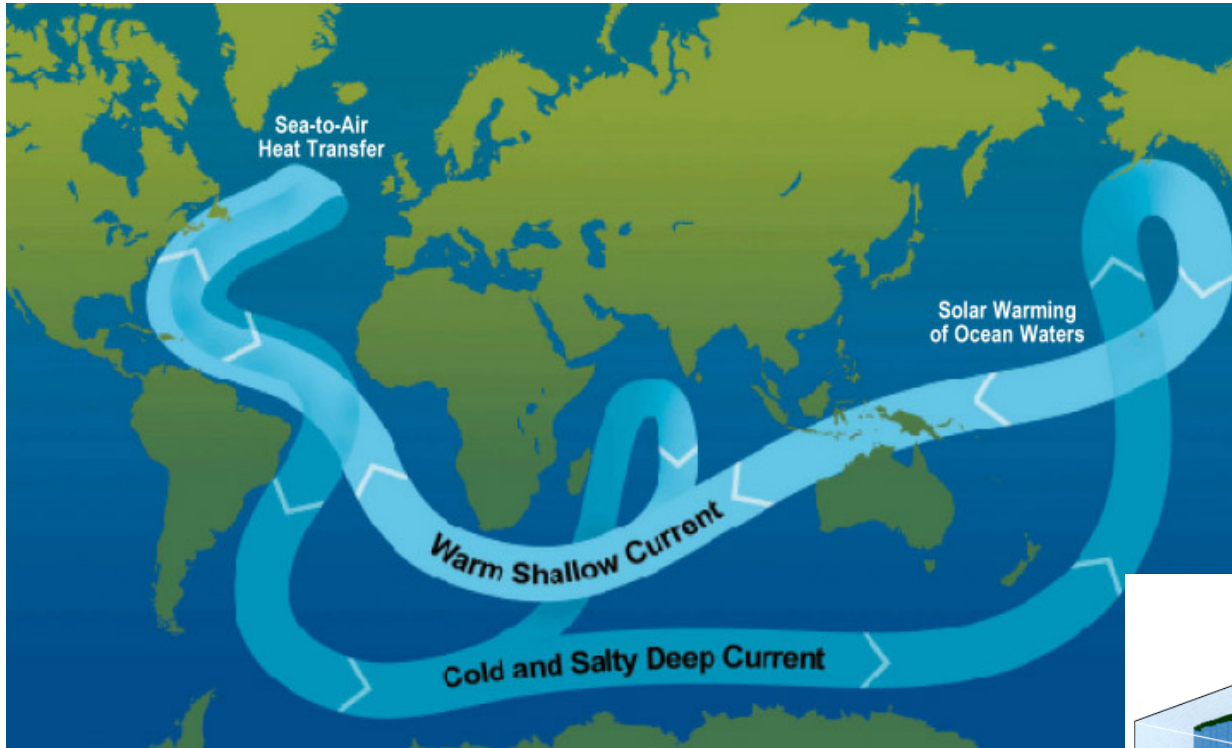


# Gas and liquids are FLUIDS

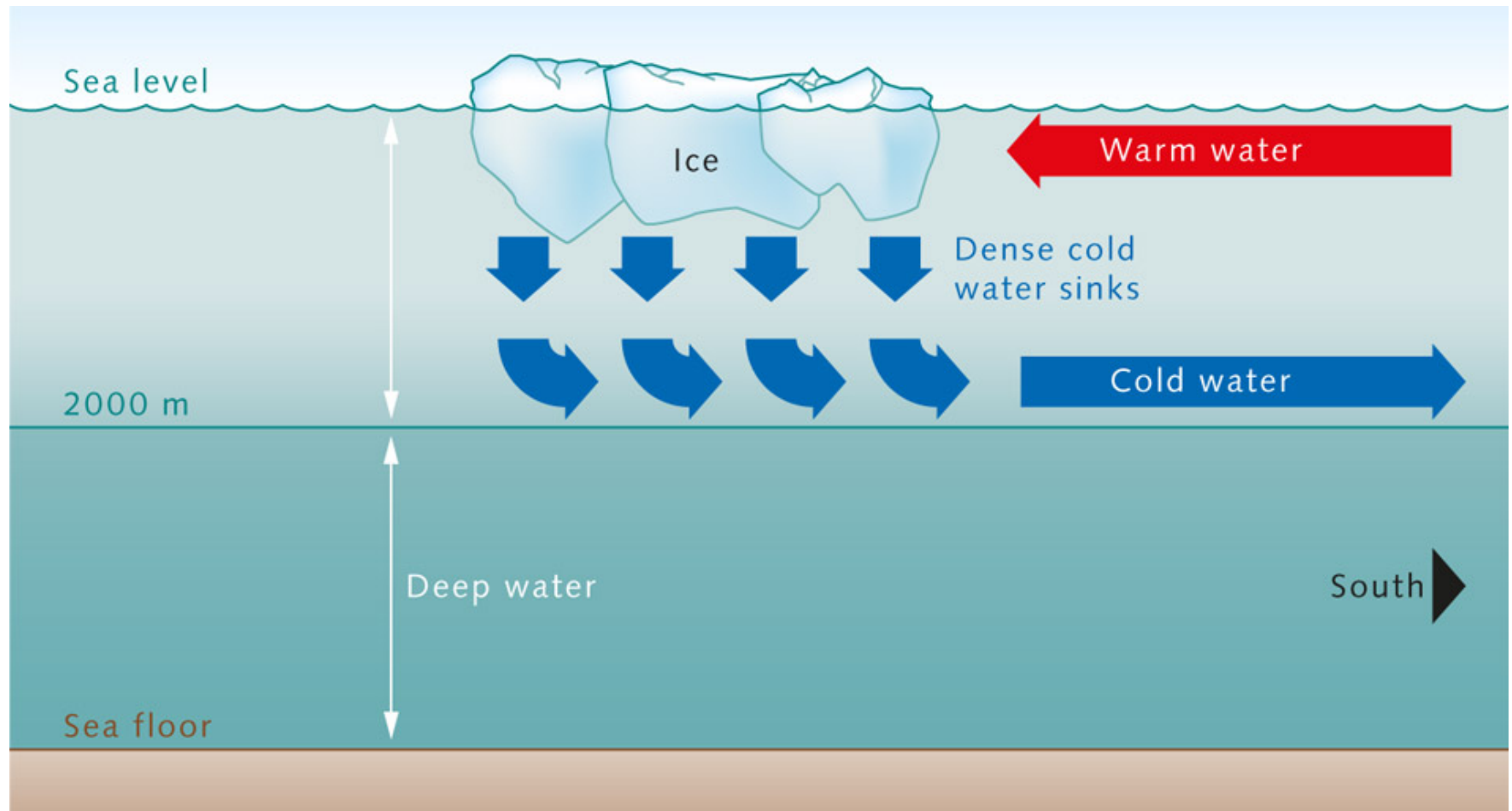
- Definition: A substance that has no fixed shape and yields easily to external pressure; a gas or a liquid.
- Convection can happen BECAUSE fluids have these properties.

# The Global Conveyor Belt:

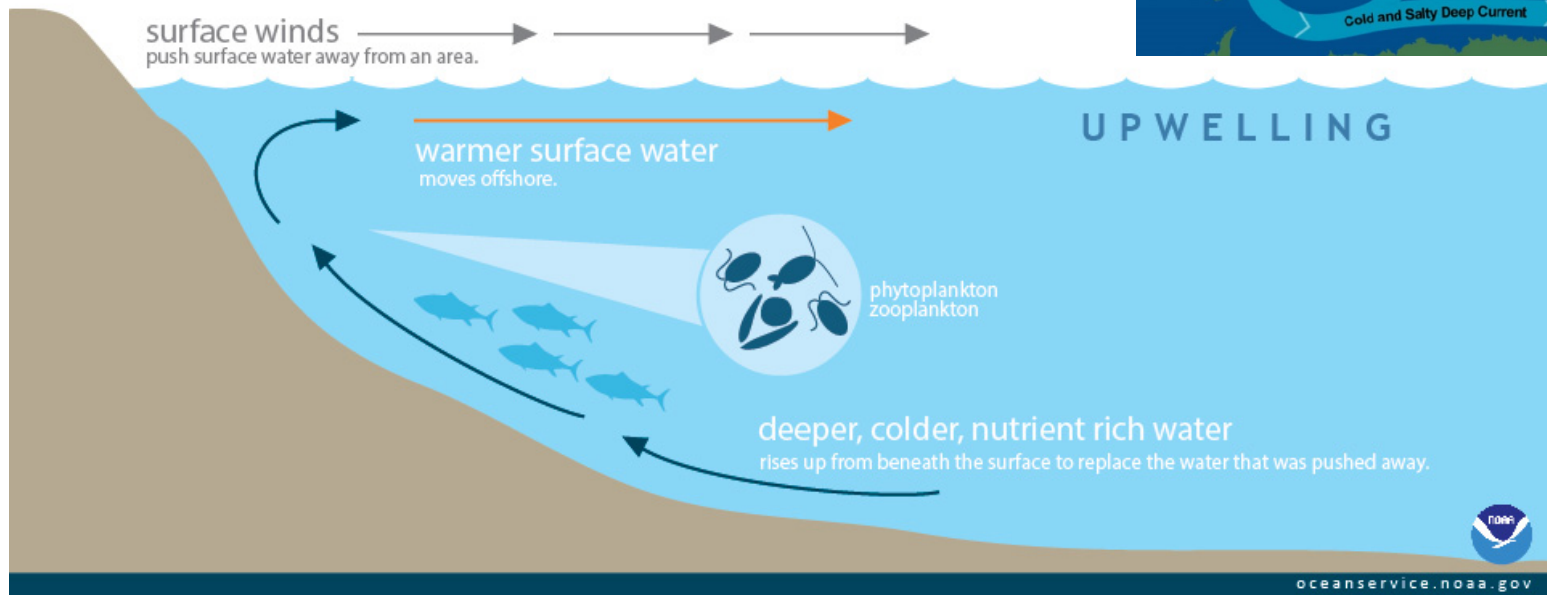
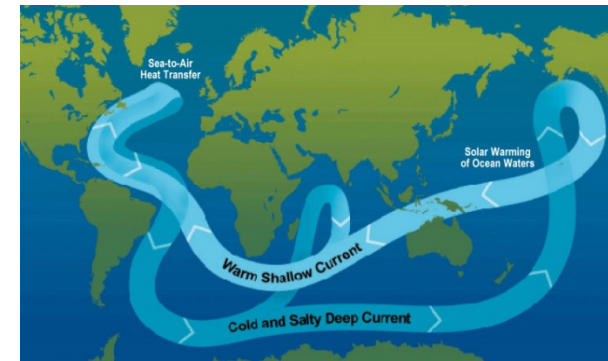
## Convection in our Oceans



# Cold Water sinks in the North Atlantic



# Upwelling on Canada's West Coast



- Cold water is pushed up
  - Very nutrient rich – that is why sea life around Vancouver Island (for example) is so rich.
- Heated by the Sun, it becomes lighter and flows along the surface.