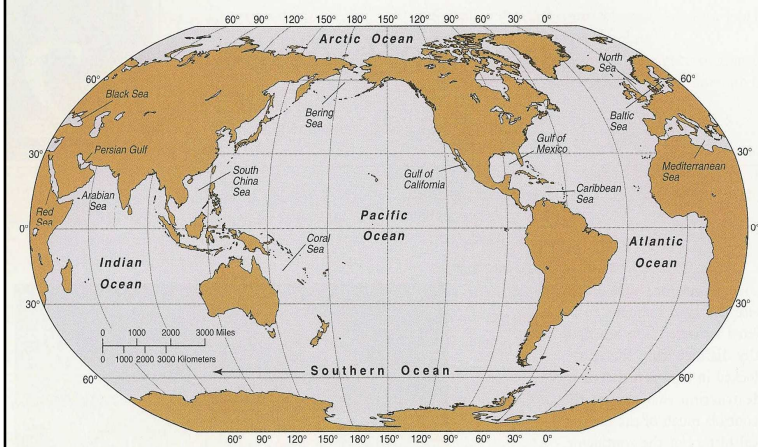


Ocean circulation

Ocean Basins

- Although interconnected, the oceans are classified into four large basins; **Pacific**, **Atlantic**, **Indian** and **Arctic** oceans.
- The continuous body of water that surrounds Antarctica is the **Southern Ocean**.
- Approximately $\frac{2}{3}$ of earth's land area is in Northern Hemisphere, which has 61% ocean.
- 80% of the Southern Hemisphere is ocean.

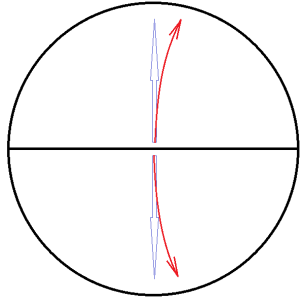
MAJOR BASINS OF THE WORLD



Surface circulation

- Heat energy from the sun creates wind, which drives strongest ocean currents (these are in the surface layer).
- Both wind and surface currents are influenced by the **Coriolis effect**.

CORIOLIS EFFECT



- The Coriolis effect makes moving objects appear to curve toward the right in the northern hemisphere and toward the left in the southern hemisphere.

