Processes at the Ocean Surface:

- 1. Water <u>heating</u> by the Sun, ↑ temperature
- 2. Water <u>evaporation</u> (salt is left behind), ↑ salinity
- 3. Precipitation (fresh water input), ↓ salinity
- 4. Water cooling (cold winds/ice masses), ↓ temperature
- 5. <u>Ice melt</u> (fresh water is released), ↓ salinity
- 6. <u>Ice formation</u> (salt is left behind), ↑ salinity
- 7. Large <u>river inflow</u> (fresh water input), ↓ salinity
- 8. Water movement (pushed by winds/tides)

Processes in the Deep:

- 9. Water <u>rise and fall</u> (density difference)
- 10. Deep water downhill flow at the ocean bottom

Interplay of these processes defines ocean circulation.