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North Atlantic Deep Water (NADW) is a water mass that forms in the North Atlantic Ocean. It is formed in the Labrador Sea and in the Greenland Sea by the sinking of saline, dense overflow water from the Greenland Sea. The water mass can be found around the southern end of Greenland then at a depth of 2000–4000 meters, down the coast of Canada and the United States where it turns to a east. It continues southeast, past the eastern tip of South America and across the South Atlantic. Its path can be found in Southern Ocean and around the tip of Africa as it mixes with Circumpolar Deep Water.

Ocean circulation is happening in daily life. The seawater move little by little to circulate the earth. The global warming could be the result of effect of ocean circulation. There are 2 types of ocean circulation, wind-driven circulation and thermohaline circulation. Especially, thermohaline circulation is the most important thing to keep the earth in good condition.

Thermohaline circulation could affect the climate or season of earth. Thermohaline circulation exist because seawater is cooled in South and North and warmed in equator (This movement also called overturn). Seaocean with salttend to sink deeply. This seawater float when it reached to equator and sink again. It takes 2000 years to circulate the earth.

Increasing of CO2, global warming, could slow the overturn down. If the overturn stopped, disaster occur in all over. 12,000 years ago, the overturn stopped in Atlantic ocean and Ice age took place again. Also, ocean observe the CO2, so if the overturn stop, CO2 will increase incredibly.

