How does water evaporate into water

How does water evaporate into water

There are two main ways this happens:

Then how it possible for water to evaporate at room temperature? water; ...

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The oceans are, by far, the largest storehouse of water on earth -- over 96% of all of Earth's water exists in the oceans. Not only do the oceans provide evaporated water to the water cycle, they also allow water to move all around the globe as ocean currents.

oWater Science School HOME o The Water Cycle o

Water cycle components >>Atmosphere? Condensation? Evaporation? Evapotranspiration? Freshwater lakes and rivers? Groundwater flow? Groundwater storage? Ice and snow? Infiltration? Oceans? Precipitation? Snowmelt? Springs? Streamflow? Sublimation? Surface runoff

When we talk about the water cycle, we must consider both where water is stored in pools, and the fluctuation of water between those storehouses. Much more water is "in storage" for long periods of time than is actively moving through the cycle. It is estimated that of the 332,500,000 cubic miles (mi3) (1,386,000,000 cubic kilometers (km3)) of the world"s water supply, about 321,000,000 mi3 (1,338,000,000 km3) is stored in oceans. That is about 96.5 percent of all Earth"s water. It is also estimated that the oceans supply about 90 percent of the evaporated water that goes into the water cycle.

The water in the oceans is saline (saltwater). Saline water contains significant amounts (referred to as "concentrations") of dissolved salts. In this case, the concentration is the amount (by weight) of salt in water, as expressed in "parts per million" (ppm). Water is saline if it has a concentration of more than 1,000 ppm of dissolved salts; ocean water contains about 35,000 ppm of salt.

Of course, nothing involving the water cycle is permanent, even the amount of water in the oceans. Over the



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"short term" of hundreds of years, the oceans" volumes don"t change much. But the amount of water in the oceans does change over the long term. During the last Ice Age, sea levels were lower, which allowed humans to cross over to North America from Asia at the (now underwater) Bering Strait.

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