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Aug. 31, 1940 Science Service Meteorologist

Air holding water vapor! People often think of the air as holding or having a capacity for water vapor. They even think of the air as soaking up or absorbing water in some way. This is not at all the case. Water vapor comes from the evaporation of moist surfaces, which process would take place with no air present at all. Water vapor is simply mixed with the oxygen, nitrogen and other constituents of the air. The presence of the air does not even limit the amount of water vapor that is mixed with it. The amount of water vapor that can exist in space with or without air depends solely upon its temperature.
