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Water vapor and temperature! Water vapor in the air acts a good deal like the glass in a greenhouse. The radiated heat from the sun passes through the atmosphere leaving about 10% and heating the atmosphere by that much. The earth, after being warmed up, radiates very readily but the character of its radiation is so different from that of the sun that 90% is stopped and absorbed by the air. This absorption is largely due to the water vapor. Thus regions with high humidity keep warmer at night than would be the case were the air dry.
