

For release By Major A.H. Thiessen
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Air interchange! As long as one place on the earth is warmer than some other place, there will be wind. Air blows from the colder to the warmer place at the surface, and in the reverse direction aloft. Warm air is raised up by the colder, heavier air, hence there are upward currents. Downward currents are also maintained. These vertical currents are not generally thought of as very strong, but their speeds are very high, high enough to carry up heavy hailstones in the case of thunderstorms, and from 100 to 200 miles an hour in the case of some tornadoes. Therefore the winds and vertical currents are the means for a very thorough interchange of air from one place to another.
