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Warm air rises! Yes, that is what often happens. When warm air rises, it does so not only because it is warmer than the layers above it, for with stable air, the usual and average condition is that air is cooler with increasing elevation, about one degree for each 300 feet. Warm air rises if it is warmer than adjacent air of the same level, or if the rate of cooling is more than a certain amount. If a portion of air begins to rise for any reason, it will continue to rise and cool until it reaches an elevation where its temperature is the same as that of the surrounding air. On the other hand, cool air sinks if it is cooler than surrounding air or too cold in reference to temperatures of air below it.
