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Whence comes our air! This is not answered, as the wind-vane only indicates which way the air is passing at the moment. Extended studies indicate that a particle of air blowing past one's windvane from the south may actually have started from some northern point. In one instance, air over Hudson Bay started to travel in a southeasterly direction to the middle Atlantic, it then curved to the northeast and finally blew over England as a southeast wind. In another case air over Baffin Bay moved southeastwardly over the Atlantic, and curving entered the tropics as a northeast wind. Weather forecasters determine the source of air by examining its physical characteristics, such as temperature, humidity, etc.