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Weather complexity! The sun, by sending varying amounts of energy, probably does its part in making our weather complex, but the earth itself adds to the complexity. In the first place, the earth spins on its axis, which changes wind directions. This is a good thing as the spinning causes all sides of the globe to be heated. In the second place, greater complexity results from irregular distribution of the continents, their irregular shorelines, and topographies with mountain ranges trending in all directions. These result in all manner of weather changes. -----