

Simulate: Pretend to have the same attributes as something else.

Simulation: The process of simulating.

SO<sub>2</sub>: See sulfur dioxide.

SO<sub>4</sub><sup>2-</sup>: See sulfate ion.

Source-Receptor Relationship: An expression of how a pollution-source area and a receptor region are quantitatively linked.

Spatial Resolution: The minimum distance in space over which meaningful differences in results can be determined (using a particular model). For example, a model based on a 381-km grid will provide no significantly different information for two receptor points separated by less than approximately 381 kilometers.

Stability: A measure of the ability of a system to resist change or to remain in a given state.

Stable: Something not easily changed or destroyed. In the atmosphere, conditions that suppress turbulence.

Stationarity: A turbulent flow field is stationary when the flow characteristics remain constant in time.

Statistical Model: A mathematical model which uses statistical values or parameters as inputs for the computations.

Stochastic: In statistical analysis, a synonym for random.

Stratosphere: The portion of the atmosphere between the troposphere and a height of about 50 kilometers above the earth's surface.