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Dynamic meteorology generally focuses on the fluid dynamics of the atmosphere. The idea of air parcel is used to define the smallest element of the atmosphere, while ignoring the discrete molecular and chemical nature of the atmosphere. An air parcel is defined as a point in the fluid continuum of the atmosphere.

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Abstract. All motions in the atmosphere connected with weather are formed as a result of heating from the sun. The atmosphere acts as a kind of heat engine, continually converting heat into mechanical energy; and mechanical energy is in turn converted back to heat by frictional dissipation.

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