



**single cells**

**multicells**

**supercells**

**0–6 km shear**

**10 m s<sup>-1</sup>**

**20 m s<sup>-1</sup>**

gust front is unable to initiate new cells, at least in any organized way; convection is short-lived

gust front initiates new cells repeatedly (downshear flank is preferred in a homogeneous environment with a roughly straight hodograph); system propagation is driven by gust-front lifting

updrafts can be quasi-steady; propagation governed by vertical pressure gradients extending over a deep layer rather than by gust-front lifting