

Figure 9-5. *Layers of the atmosphere.*

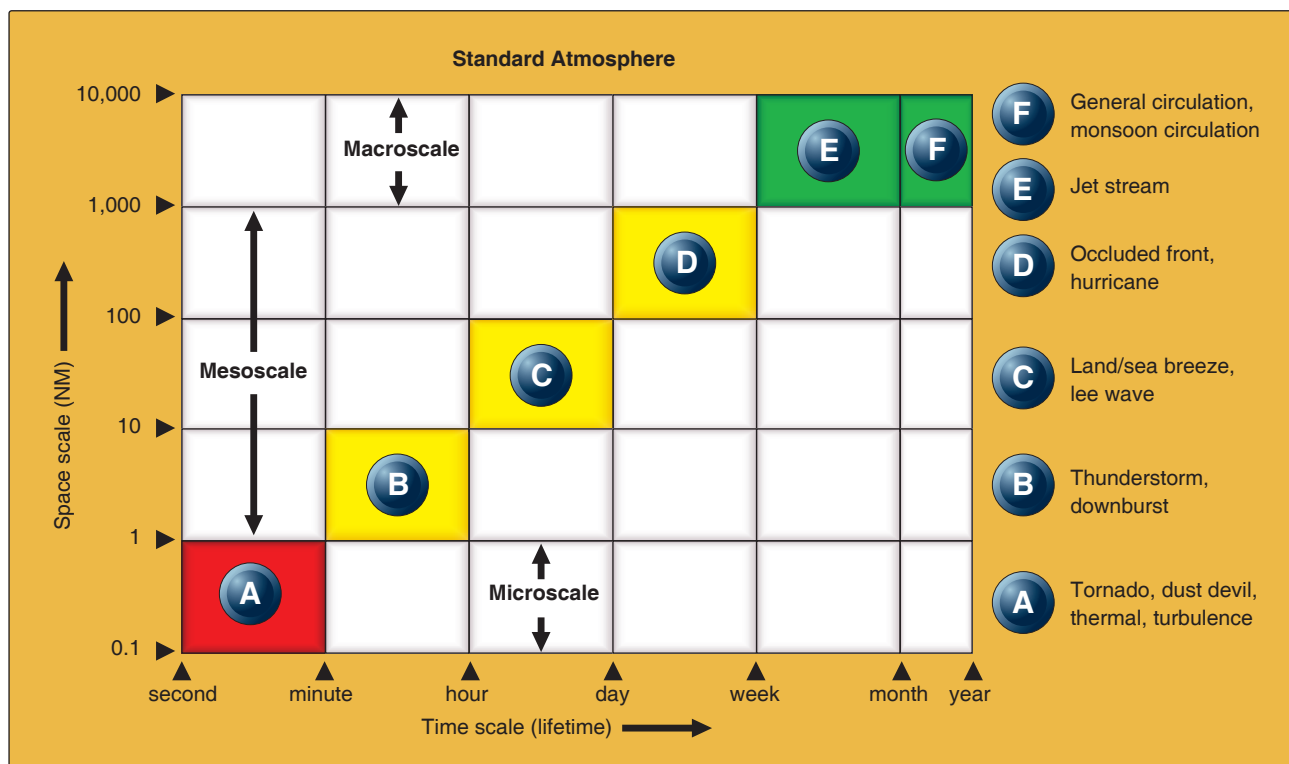


Figure 9-6. *Scale of circulation—horizontal dimensions and life spans of associated weather events.*

Smaller scale features are embedded in larger scale features. For instance, a microscale thermal may be just one of many in a mesoscale convergence line, like a sea breeze front.

The sea breeze front may occur only under certain synoptic (i.e., simultaneous) conditions, which is controlled by the macroscale circulations. The scales interact, with feedback