# Unit 1: General Review and Global Circulation Concepts

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## Case Studies

1. Midlatitude cyclone and jet streak over the Caribbean

<http://www.meted.ucar.edu/radar/tropical_cases/navmenu.php?tab=3&page=1.0.0>

The case study features conceptual models of Rossby waves, a surface cyclone, fronts, jet streaks, and prefrontal squall lines. Multi-scale analysis is conducted using synoptic charts, soundings, satellite images, and radar images.

1. Tropical-Extratropical Air Mass Interactions in South America  
   <https://www.meted.ucar.edu/training_module.php?id=1023>

Two case studies explore the synoptic patterns and significant weather associated with the intrusion of tropical air masses into the midlatitudes and the intrusion of midlatitude air masses into the tropics. The examples presented are from South America and include conceptual models and forecast challenges at different periods of each event.