# Unit 3: General Mesoscale Phenomena

## Case Studies

* Squall lines and bow echoes associated with severe weather and floods in Jamaica, <http://www.meted.ucar.edu/radar/tropical_cases/navmenu.php?tab=2&page=1.0.0>

The case study features conceptual models of MCSs and multiscale analysis including synoptic charts, soundings, satellite and radar images. Dynamical and physical reasoning are applied to explain the occurrence of tornadoes and other severe weather.

* MCSs associated with record flooding in West Africa,

[http://www.meted.ucar.edu/asmet/w\_africa](http://www.google.com/url?q=http%3A%2F%2Fwww.meted.ucar.edu%2Fasmet%2Fw_africa%2F&sa=D&sntz=1&usg=AFQjCNHhoRZuICePYy2iyeYjfq4hknjM-w)/

The case study features conceptual diagram of key features of the West African Monsoon, forecast procedures, and multi-scale analysis including synoptic charts, NWP output, and satellite images.