# Unit 2: Tropical Disturbances

## Case Studies

MJO, Equatorial Waves, and Tropical Cyclogenesis

<https://www.meted.ucar.edu/training_module.php?id=996>

A case study of two sets of twin tropical cyclones spawned from the MJO, an equatorial mixed Rossby-gravity waves, and an equatorial (n=1) Rossby wave.

Upper-tropospheric trough and mesoscale convective systems in Puerto Rico <http://www.meted.ucar.edu/radar/tropical_cases/navmenu.php?tab=1&page=1.0.0>

This case occurred over Puerto Rico on 6-7 May 2001. It shows synoptic scale forcing from an upper-level trough, orographic forcing, and squall lines and bow-echoes.

Tropical Storm Allison Rains in Houston, Texas

<http://www.meted.ucar.edu/nwp/pcu3/cases/allison_HOU/menu.htm>

A case study of Tropical Storm Allison (June 2001) that is primarily focused on numerical weather prediction aspects. It examines the forecasts of storm track and precipitation.