

2-5 day period disturbances observed along a SST front

- The initiation of the MJO in the late October 2011 -

Qoosaku MOTEKI

JAMSTEC

Abstract

Characteristics of 2-5 day period disturbances observed in October 2011 over the Indian Ocean were investigated. Active convection associated the disturbances developed along a SST front around 5S-10S before and during the onset of the MJO in the late October. The SST front was maintained for more than 2 weeks between 40-100E and could be due to the advection associated the surface ocean currents. The air temperature contrast and convergence in 0-1.5 km were continuously formed along the SST front and convection was repeatedly generated there. Such repeated generation of convection along the SST front was considered to contribute on charge and integration of the moisture for the onset of the MJO.