Global Scenario of Radar Bright Band

Sonia R Fredrick, Rajasri Sen Jaiswal, Neela V S, Rasheed M and Leena Zaveri

Sona College of technology, Thiagarajar polytechnic road, Salem-636005. research_sona @yahoo.co.in

In this paper bright band height as derived from PR onboard TRMM has been investigated over the latitudinal belt of +40 to -40 and longitudinal belt of -180 to +180 for the year 2008. Effort has been made to find out if there is latitudinal or longitudinal dependence of bright band height. For this the entire latitudinal belt has divided into three divisions, viz $0^{\circ} \rightarrow 30^{\circ}$, $30^{\circ} \rightarrow 60^{\circ}$ and $60^{\circ} \rightarrow 90^{\circ}$ in the intervals of 5° in each group. Emphasis has been given in the 30N to 30S region as lot of convective activity prevails in this region. In the Equatorial region monthly and daily variation of bright band has been studied. Over Indian region height of bright band has been investigated in relation to occurrence of rainfall.