



$k$ : the number of cloud layer;  $H_{bi}$ : base height of  $i^{\text{th}}$  moist layer;  $H_{ti}$ : top height of  $i^{\text{th}}$  moist layer;  $RH_{\min}$ : the maximum of RH in moist layer;  $RH_{\max}$ : the minimum of RH in moist layer.