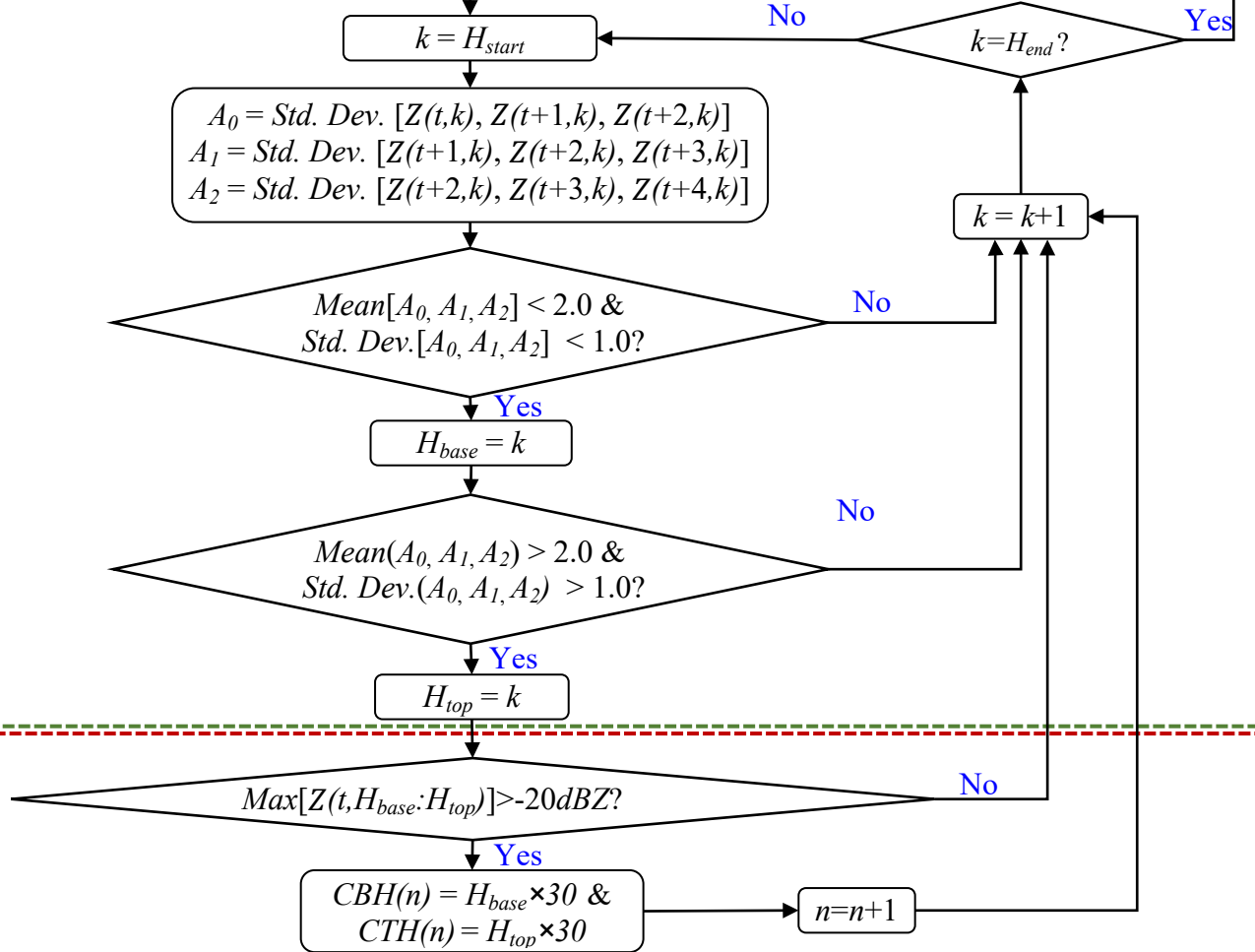
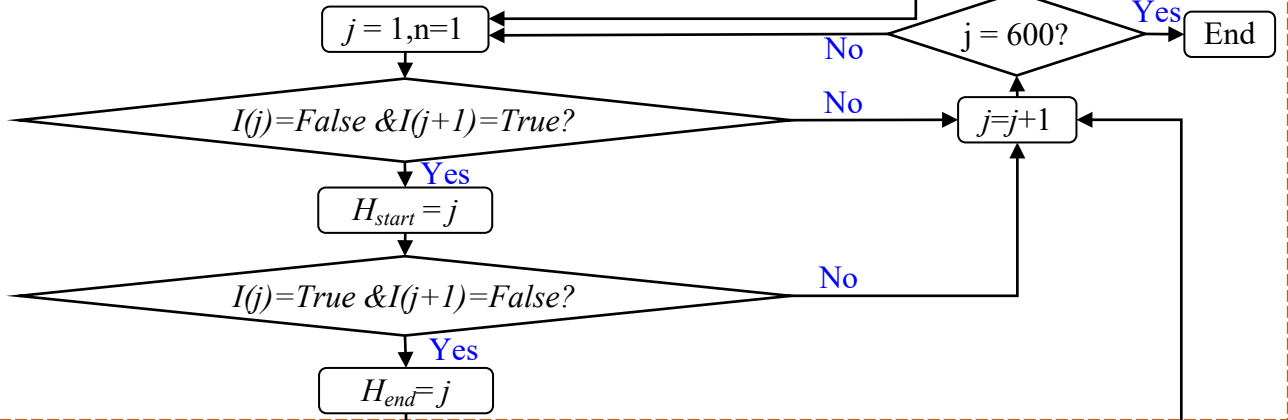
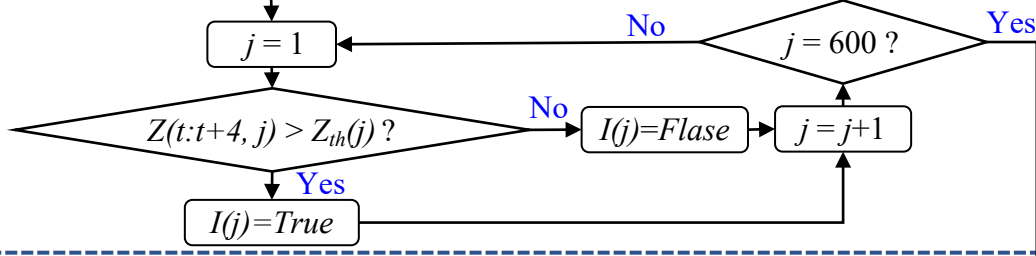


MMCR reflectivity  $Z(t:t+4, j)$   
(5 consecutive time steps  $t$  to  
 $t+4, j=1, 2, \dots, 600$ )



$Z(t, j)$ : MMCR reflectivity at the  $j^{\text{th}}$  height level ( $j=1, 2, \dots, 600$ ) at given time  $t$ ;  $Z_{th}(j)$ : Reflectivity threshold at the  $j^{\text{th}}$  height level;  
 $I(j)$ : Noise discrimination indicator at the  $j^{\text{th}}$  height level ( $\text{True}=\text{non-noise}$ ,  $\text{False}=\text{noise}$ );  $H_{start}$ : Start height level of non-noise layer;  
 $H_{end}$ : End height level of non-noise layer;  $H_{base}$ : Base height level of moist layer;  $H_{top}$ : Top height level of moist layer;  
 $n$ : Number of cloud layers;  $CBH(n)$ : Base height of the  $n^{\text{th}}$  cloud layer;  $CTH(n)$ : Top height of the  $n^{\text{th}}$  cloud layer.