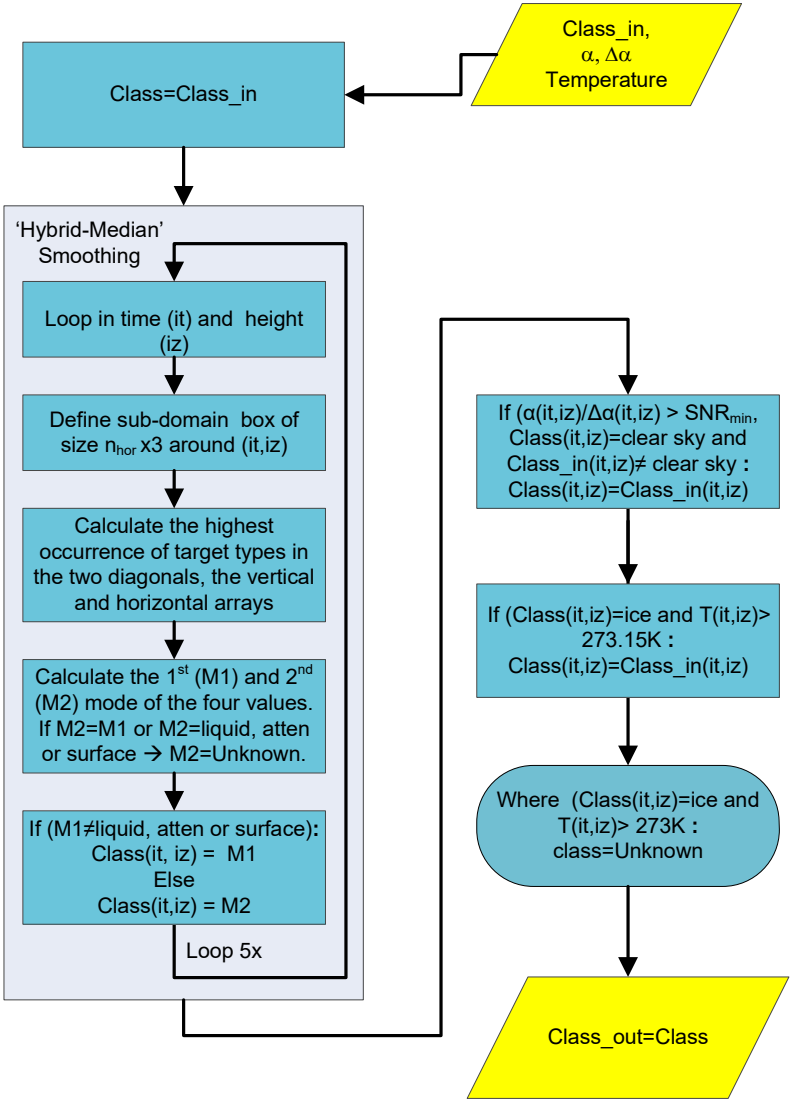
Class_in,
α, Δα
Temperature
Class=Class_in
'Hybrid-Median' Smoothing
Loop in time (it) and height (iz)
Define sub-domain box of size n_{hor} x3 around (it,iz)
Calculate the highest occurrence of target types in the two diagonals, the vertical and horizontal arrays
Calculate the 1st (M1) and 2nd (M2) mode of the four values. If M2=M1 or M2=liquid, atten or surface → M2=Unknown.
If (M1≠liquid, atten or surface): Class(it, iz) = M1 Else Class(it,iz) = M2
Loop 5x
If (α(it,iz)/Δα(it,iz) > SNR_{min}, Class(it,iz)=clear sky and Class_in(it,iz)≠ clear sky : Class(it,iz)=Class_in(it,iz)
If (Class(it,iz)=ice and T(it,iz)> 273.15K : Class(it,iz)=Class_in(it,iz)
Where (Class(it,iz)=ice and T(it,iz)> 273K : class=Unknown
Class_out=Class