

moist clean air

$RH_i > 100\%$

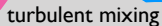
heterogeneous ice nucleation

A dashed yellow line is drawn across the horizontal interface between the moist clean air (top) and dusty dry air (bottom) regions.

initial cirrus  
at interface

LW cooling

turbulent mixing

A small, grey, horizontal cloud is shown at the interface. It contains several pink circular arrows indicating turbulent mixing. An orange arrow points upwards from the cloud, labeled 'LW cooling'.

dusty cirrus

LW cooling

turbulent mixing

sedimentation of ice

A larger, grey, billowy cloud is shown at the interface. It contains several pink circular arrows indicating turbulent mixing. Two orange arrows point upwards from the cloud, labeled 'LW cooling'. Dashed grey lines extend downwards from the bottom of the cloud, labeled 'sedimentation of ice'.

dusty dry air

$RH_i < 100\%$