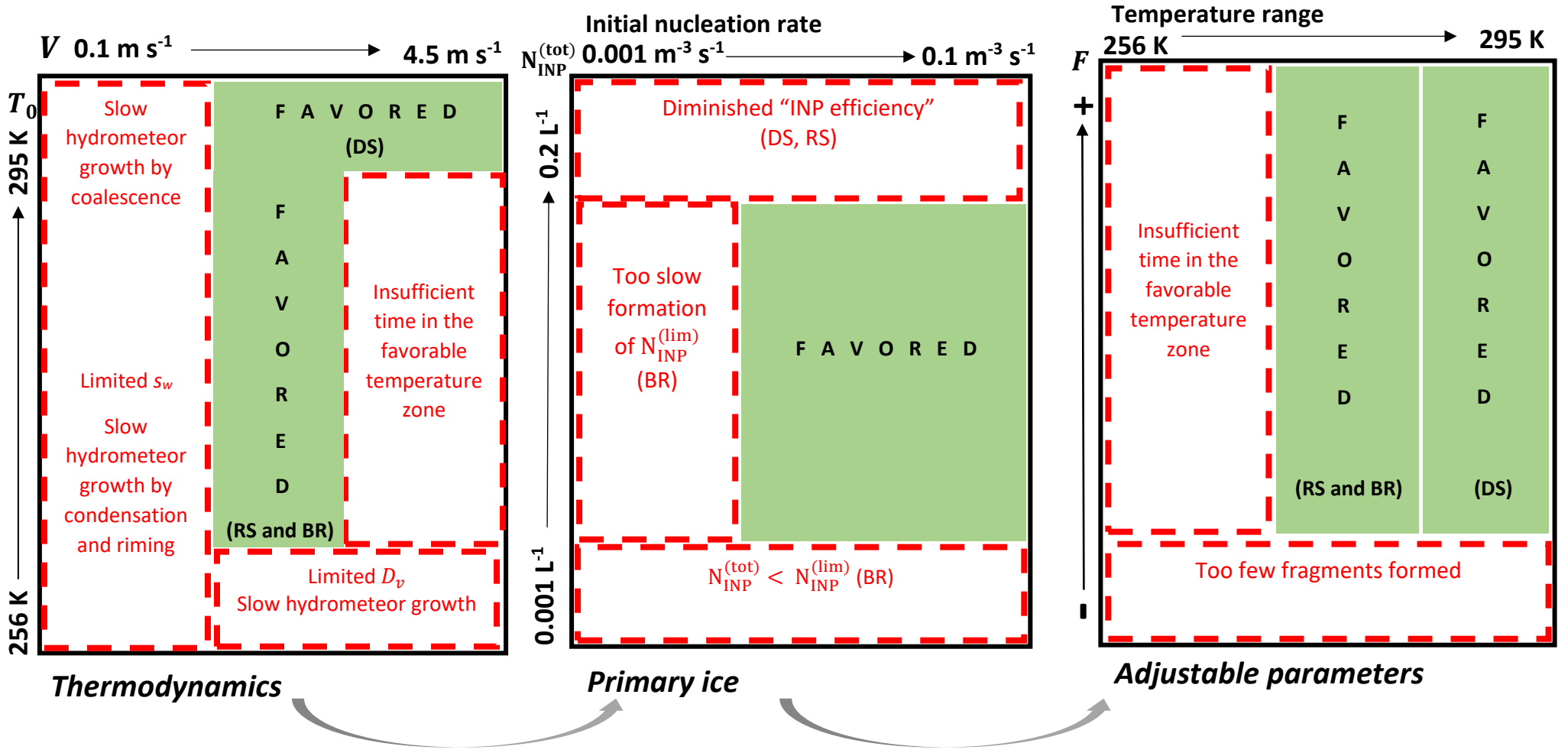
V 0.1 m s-1
4.5 m s-1
T0
295 K
256 K
Slow hydrometeor growth by coalescence
Limited sw
Slow hydrometeor growth by condensation and riming
FAVORED (DS)
FAVORED (RS and BR)
Insufficient time in the favorable temperature zone
Limited Dv
Slow hydrometeor growth
Thermodynamics
Initial nucleation rate
N(tot)INP 0.001 m-3 s-1
0.1 m-3 s-1
0.2 L-1
0.001 L-1
Diminished "INP efficiency" (DS, RS)
Too slow formation of N(lim)INP (BR)
FAVORED
N(tot)INP < N(lim)INP (BR)
Primary ice
Temperature range
256 K
295 K
F
+
-
Insufficient time in the favorable temperature zone
FAVORED (RS and BR)
FAVORED (DS)
Too few fragments formed
Adjustable parameters