Bulk diversity ($D_\gamma$)

Average particle-specific diversity ($D_\alpha$)

SOA period (<1 µm)  Dust period (<1 µm)  SSA period (<1 µm)
SOA period (>1 µm)  Dust period (>1 µm)  SSA period (>1 µm)

$\chi = 10\%$
$\chi = 25\%$

Fewer particle classes

Mixing state index ($\chi$)

SOA period  Dust period  SSA period

More internally mixed
More externally mixed

Submicron  Supermicron