

Variable	Equation	Average	Range	
Thickness (m)	$dz$	$1.2 \times 10^{-1}$	$5 \times 10^{-4}$	$8 \times 10^{-1}$
Density ( $\text{kg m}^{-3}$ )	$\rho_{\text{sn}}$	340	300	460
Temperature (K)	$T$	225	205	255
Mass (kg)	$m_{\text{sn}} = dz \cdot \rho_{\text{sn}}$	42	0.15	368
Vapor mass concentration ( $\text{kg m}^{-3}$ )	$C_v$ Eq. (8)	$1.8 \times 10^{-5}$	$1.2 \times 10^{-6}$	$4.4 \times 10^{-4}$
Porosity	$\Phi = 1 - (\rho_{\text{sn}}/\rho_{\text{ice}})$	0.63	0.5	0.67
Vapor mass (kg)	$m_{\text{vap}}$ Eq. (11)	$1.3 \times 10^{-6}$	$3 \times 10^{-10}$	$2.4 \times 10^{-4}$
Minimum ratio	$\tau_{\text{min}} = 1/10^6$	$1 \times 10^{-6}$	$1 \times 10^{-6}$	$1 \times 10^{-6}$
Maximum ratio	$\tau_{\text{max}} = \frac{C_v \cdot \Phi}{\rho_{\text{sn}}} \times 10^6$	$3.3 \times 10^{-2}$	$1.3 \times 10^{-3}$	1