

Symbol	Constant	Value	Units
ρ_w	water density	1000	kg m^{-3}
ρ_i	ice density	917	kg m^{-3}
g	gravitational constant	9.8	m s^{-2}
n	exponent in glen's flow law	3	
A_b	creep parameter	7×10^{-24}	$\text{Pa}^n \text{s}^{-1}$
L	latent heat	3.35×10^5	J kg^{-1}
S_m	moulin area	10	m^2
σ	englacial void fraction	see text	
K_s	sheet flux coefficient	see text	$\text{Pa}^{-1} \text{s}^{-1}$
K_c	turbulent flow coefficient	0.1	$\text{m s}^{-1} \text{Pa}^{-0.5}$
λ_c	incipient channel width	10	m
h_r	bed roughness height scale	0.5	m
l_r	bed roughness length scale	10	m
h_c	critical layer depth	1	m
C_{el}	elastic compliance	1.02×10^{-5}	m Pa^{-1}
A_m	moulin cross-sectional area	10	m^2
N_0	regularization pressure	10^3	Pa