

Symbol	Description	Units
$x, y (x_1, x_2)$	Horizontal coordinates	m
$z (x_3)$	Vertical elevation	m
n_z	Number of vertical layers	
t	Time	s
σ	“Sigma” coordinate	unitless
H	Ice thickness	m
s	Upper surface elevation	m
b	Lower surface elevation	m
\dot{a}	Surface mass balance	m s^{-1}
\dot{b}	Basal mass balance	m s^{-1}
Q_t	Tracer quantity	
l	Layer thickness	
\dot{S}	Tracer sources and sinks	