Param.	value	meaning	reference
ν	10	Eq. (3) – relation between ice thickness and slope	Oerlemans (2001)
α	$1.70\,\mathrm{m}^{1/2}$	Eq. (3) – calibrated to give observed surface height	Map, Norsk Polarinstitutt
β	$0.0045\,\mathrm{m\,w.e.\,a^{-1}\,m^{-1}}$	balance gradient, observed on nearby glaciers	Oerlemans and Van Pelt (2015)
b_a	$-175\,\mathrm{m}$	"asymptotic" depth of fjord	Based on map Hansen (2014)
b_h	$1100\,\mathrm{m}$	note: $b_a + b_\mathrm{h}$ is highest point of bed	Map, Norsk Polarinstitutt
λ	$15\,000\,\mathrm{m}$	calibrated to give observed water depth at front	Based on map Hansen (2014)
κ	0.4	ice thickness at front (fraction of H_m)	Oerlemans et al. (2011)
c	$1.15\,\mathrm{a^{-1}}$	calving parameter, as observed for Hansbreen	Oerlemans et al. (2011)
S_0	$0.027\,\mathrm{a^{-1}}$	calibrated with amplitude of 1991–1997 surge	Mansell et al. (2012)
t_s	8 a	calibrated with observed duration of 1991–1997 surge	Mansell et al. (2012)
$\partial E/\mathrm{d}T$	$35\,\mathrm{m\,K^{-1}}$	based on energy-balance modelling	Van Pelt et al. (2012)
$\partial E/\mathrm{d}P$	$-2.25\,\mathrm{m}\,\%^{-1}$	based on energy-balance modelling	Van Pelt et al. (2012)
E_0	584 m	reference ELA for time < 1899, tuning parameter	tuning to length record
E_1	627 m	reference ELA for time > 1899, tuning parameter	tuning to length record