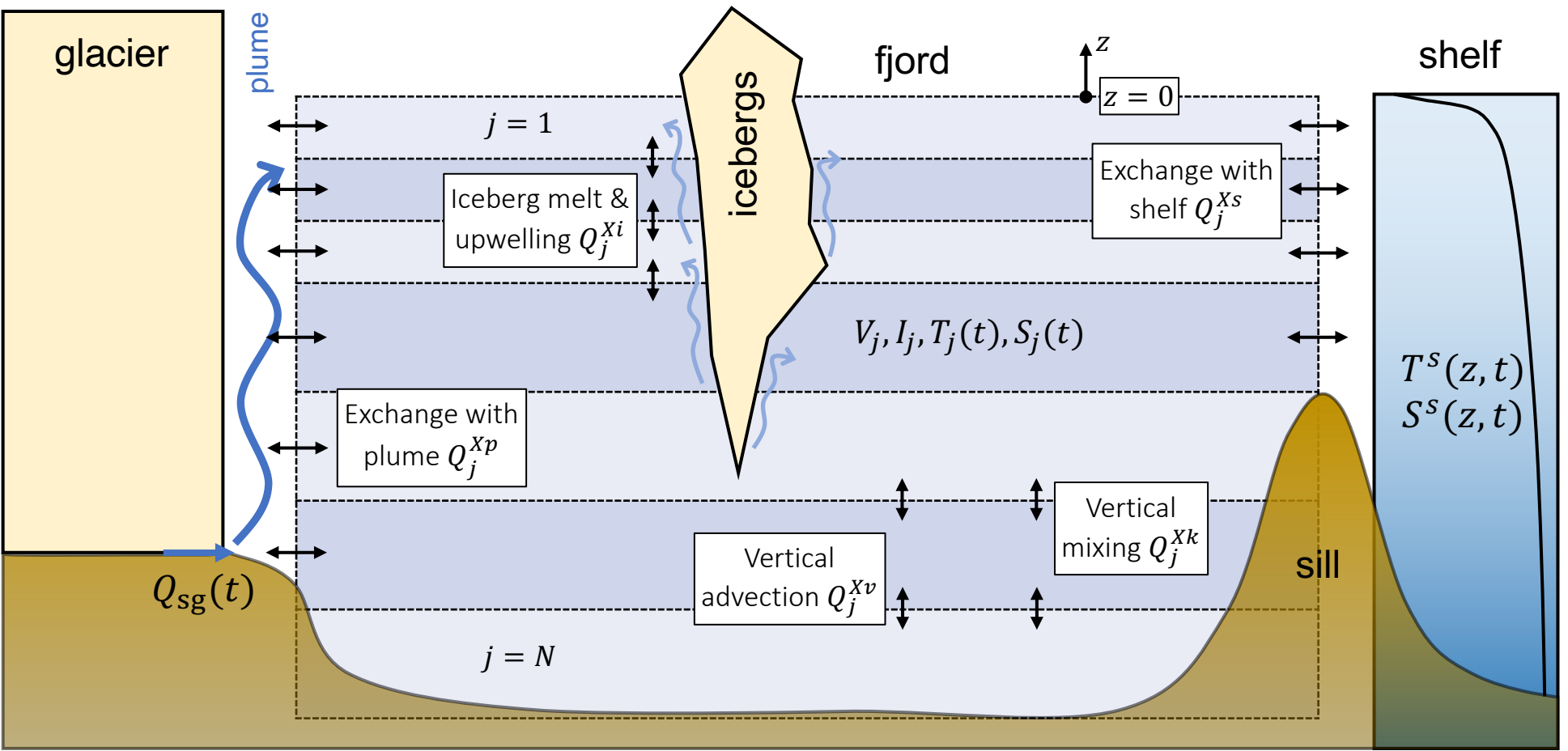
glacier
plume
fjord
shelf
icebergs
z
$z = 0$
$j = 1$
Iceberg melt & upwelling Q_j^{Xi}
Exchange with shelf Q_j^{Xs}
$V_j, I_j, T_j(t), S_j(t)$
$T^s(z,t)$
$S^s(z,t)$
Exchange with plume Q_j^{Xp}
Vertical mixing Q_j^{Xk}
Vertical advection Q_j^{Xv}
sill
$Q_{sg}(t)$
$j = N$