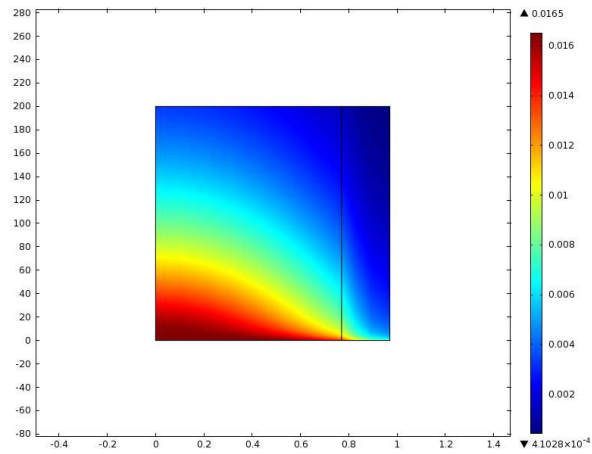
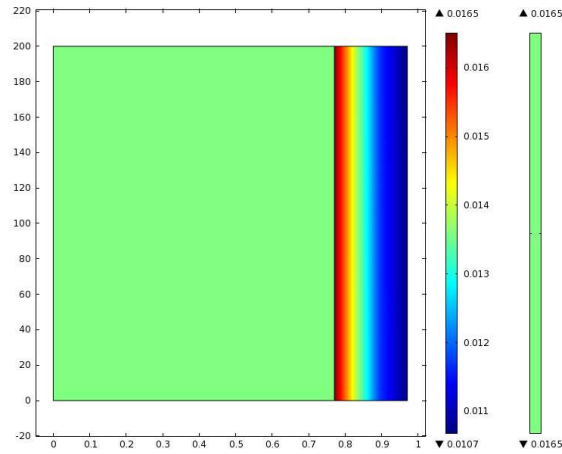


Comparison of modeling results

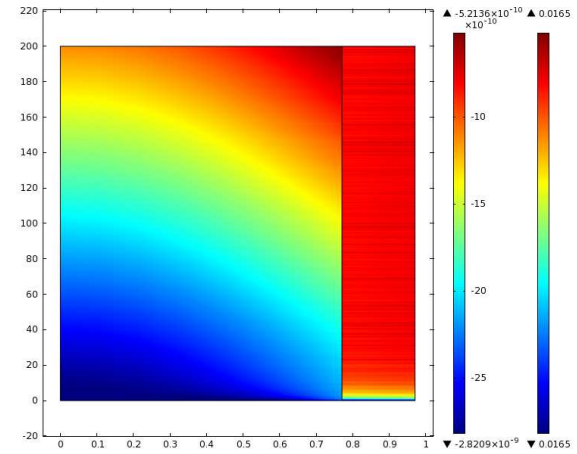
Distribution of water vapour



Model 1: one PDE-module for both domains

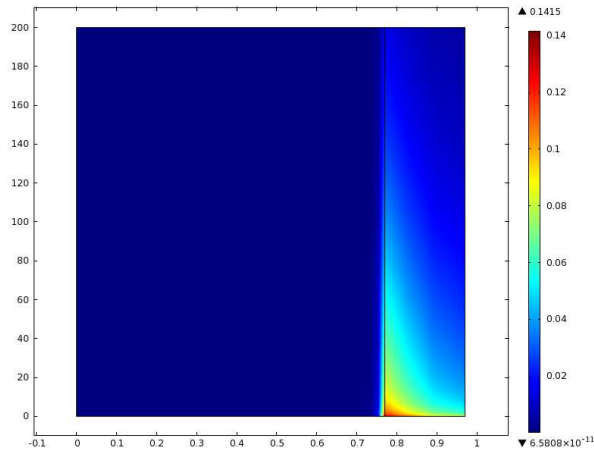


Model 2: two separate PDE modules,
Dirichlet conditions on Interface:
dom 1: $Y_a = Y_d$
dom 2: $Y_d = Y_a$

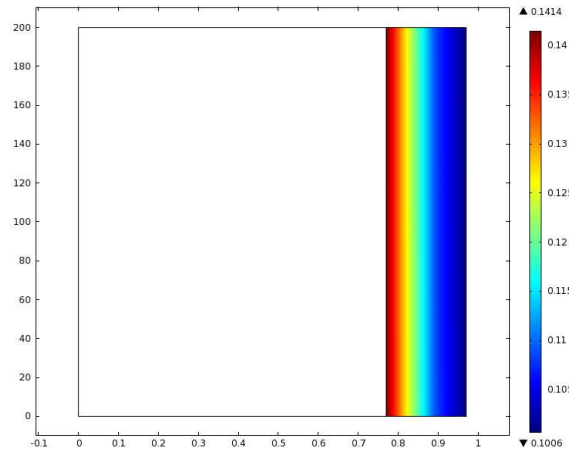


Model 2: two separate PDE modules,
Boundary fluxes on interface:
dom 1: $N_1 = D_A * (Y_{d,r})$
dom 2: $N_2 = D_{va} * (Y_{a,r})$

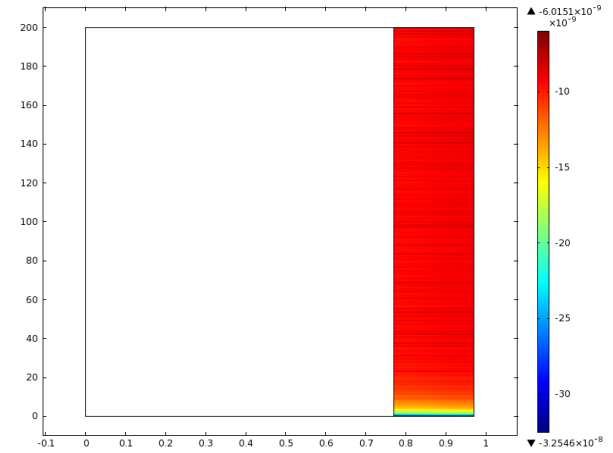
Distribution of adsorbed species



Model 1: one PDE-module for both domains



Model 2: two separate PDE modules,
Dirichlet conditions on Interface:
dom 1: $Y_a=Y_d$
dom 2: $Y_d=Y_a$



Model 2: two separate PDE modules,
Boundary fluxes on interface:
dom 1: $N_1=D_A*(Y_{d,r})$
dom 2: $N_2=D_{va}*(Y_{a,r})$