

Description of Additional Supplementary Files

Supplementary Movie 1: Laboratory simulations of salinity-driven convection at -5°C , Acrylic content 11 vol. %, salt concentration 15 wt. %.

Supplementary Movie 2: Laboratory simulations of salinity-driven convection at -5°C , Acrylic content 11 vol. %, salt concentration 20 wt. %.

Supplementary Movie 3: Laboratory simulations of salinity-driven convection at -5°C , Acrylic content 0 vol. %, salt concentration 15 wt. %.

Supplementary Movie 4: Laboratory simulations of salinity-driven convection at -5°C , Acrylic content 55 vol. %, salt concentration 15 wt. %.

Supplementary Movie 5: Laboratory simulations of salinity-driven convection at -10°C , Acrylic content 11 vol. %, salt concentration 20 wt. %.