

**Barotropic effects on surface layer on water exchange through horizontal channels with quadratic-shape cross-sections**  
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**Buoyancy-driven two-layer exchange flows across a slowly submerging barrier**

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**Dynamics of dense gravity currents and mixing in an up-sloping and converging vee-shaped channel**

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**Experimental and analytical investigation of dense gravity currents in a rotating, up-sloping and converging channel**

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