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# Ideal-Fluid Thermocline with Weakly Convective Adjustment in a Subpolar Basin

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### ABSTRACT

The ideal-fluid thermocline with continuous stratification is extended to include a weakly convective adjustment process taking place in a subpolar basin. The convective adjustment creates a well-mixed layer on top of a moving unventilated thermocline where potential vorticity is specified as a boundary condition. Convective adjustment makes the moving water stratum shallower and the current more surface-intensified.

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