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## Modeling climatological circulation in Lake Michigan

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Climatological circulation in Lake Michigan is presented. It is based on continuous modeling of 3D lake circulation and thermal structure from 1998-2007 using observed meteorological data as the forcing function. Model results show a large-scale cyclonic circulation pattern during both stratified and unstratified conditions with current speeds of several cm/s. Model results are compared with long-term current observations. Mechanisms driving long-term lake circulation are discussed.