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## Lake Michigan: nearshore variability

We conducted a high-resolution survey in the nearshore of Lake Michigan at a 20 meter contour using towed electronic instrumentation. The nearly 1200 km survey was conducted Sep 8-15, 2010. We also conducted six cross-contour tows. Along the survey tracks we sampled fixed stations (15) to collect calibration data and other parameters not observed by the in situ electronic sensors. With the towed sensor data we constructed a comprehensive representation of spatial variability in the nearshore. We analyzed for potential signals within the variability that may be correlated to landscape characteristics of the adjacent coastal watersheds using multivariate stepwise regressions. The survey provided an overview of whole lake variability in the nearshore of Lake Michigan. *This abstract does not necessarily reflect USEPA policy*.

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