

Contaminant Trends in Lake Ontario Sediment Cores

Chris Marvin

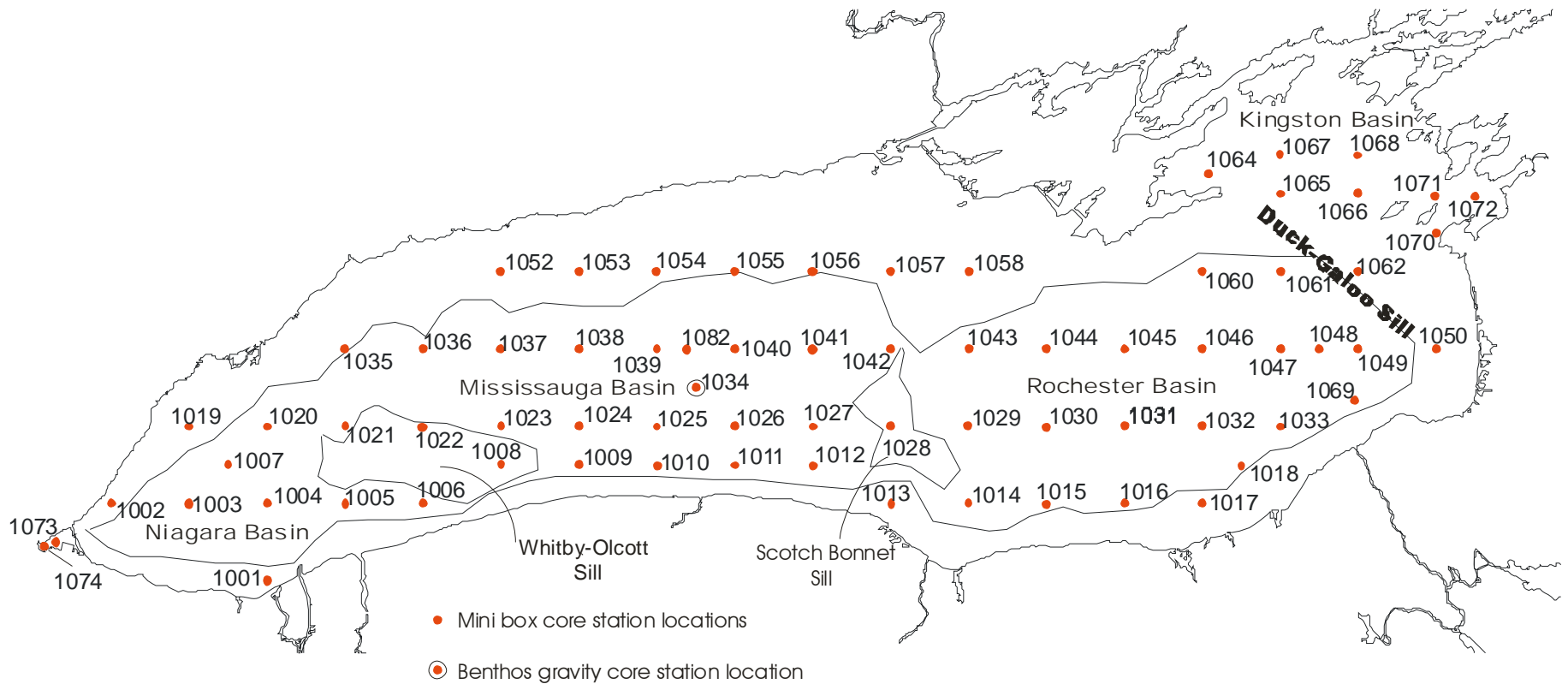
Environment Canada

Eric Reiner and Paul Helm

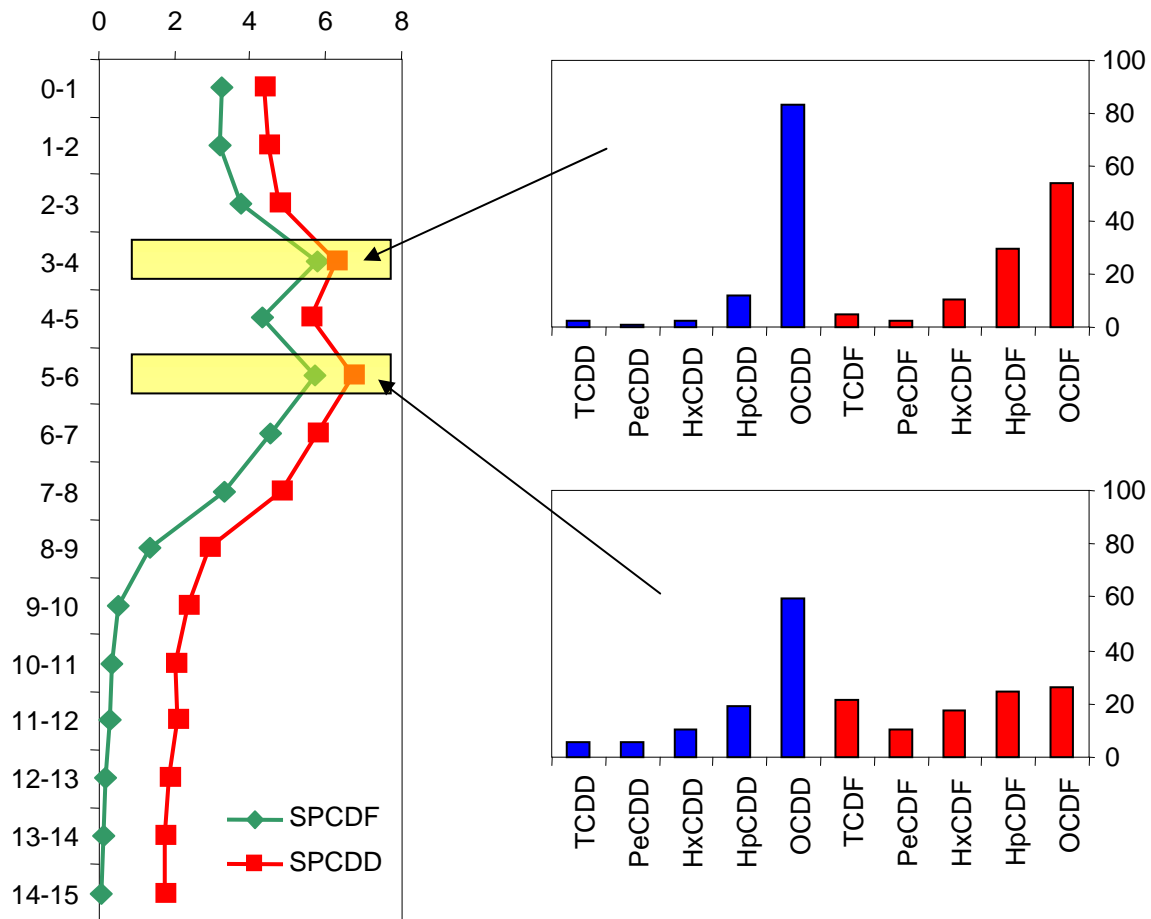
Ontario Ministry of the Environment

Premise

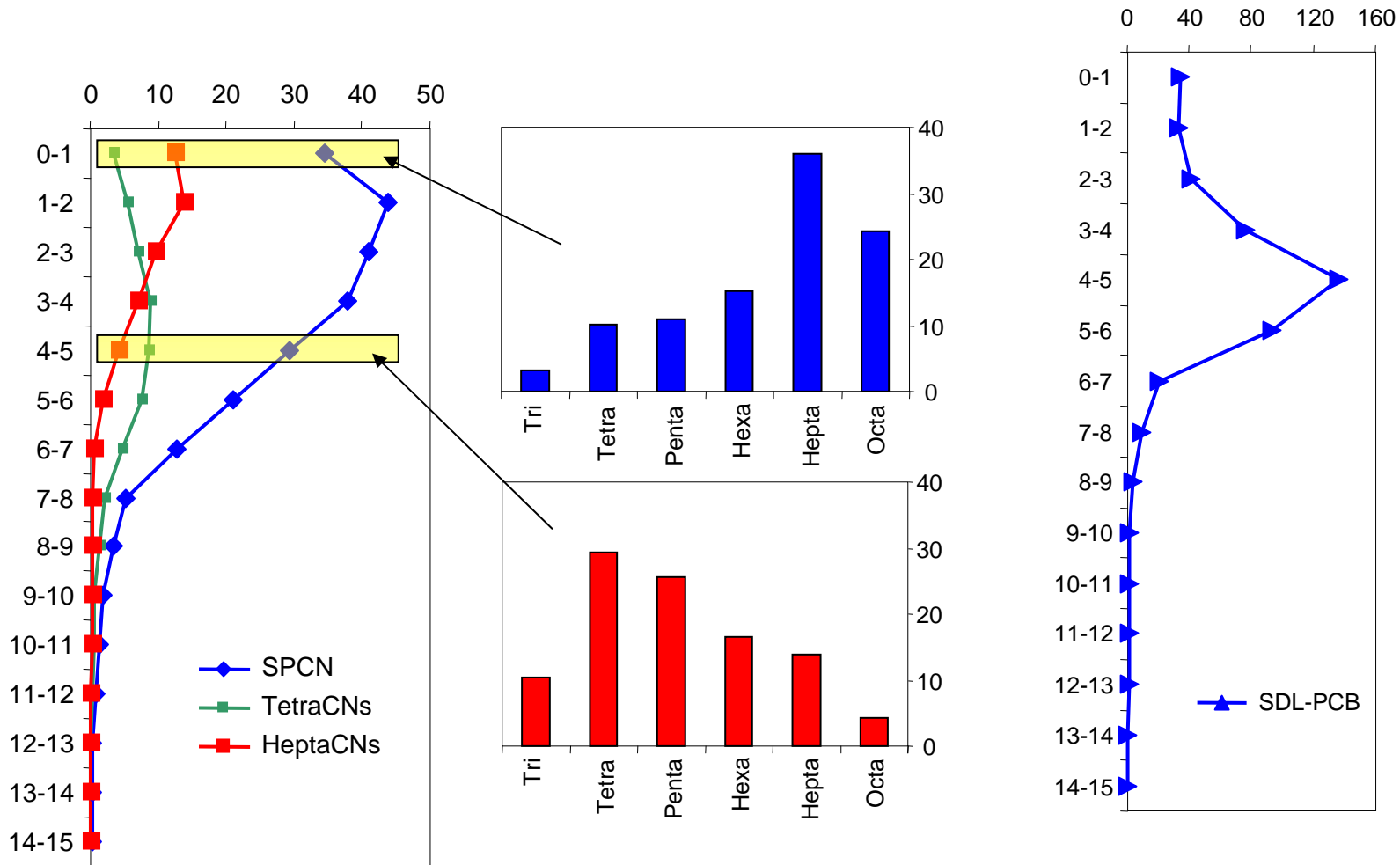
- Index stations in the major depositional basins of Lake Ontario are generally representative of lake-wide contaminant trends
- Sediment coring provides a pragmatic and cost-effective approach to assessment of temporal trends in contamination in Lake Ontario



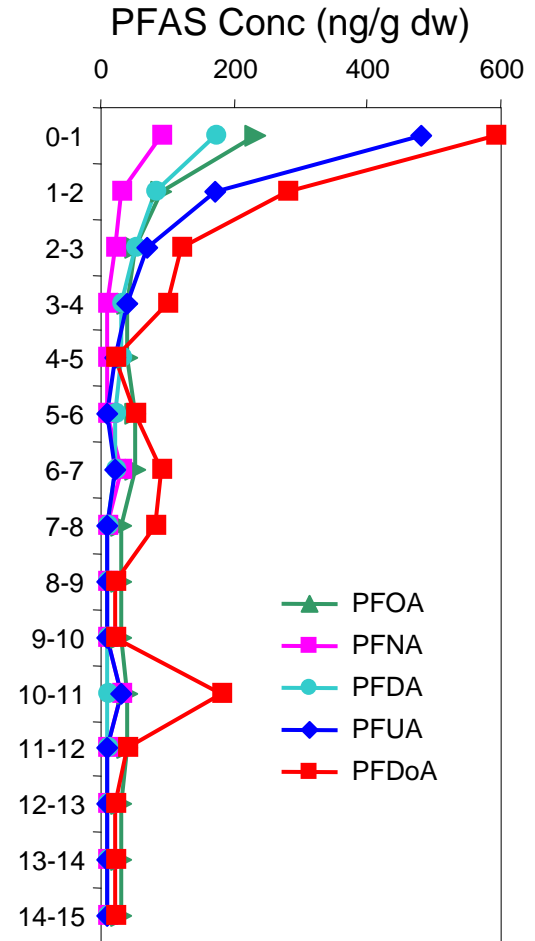
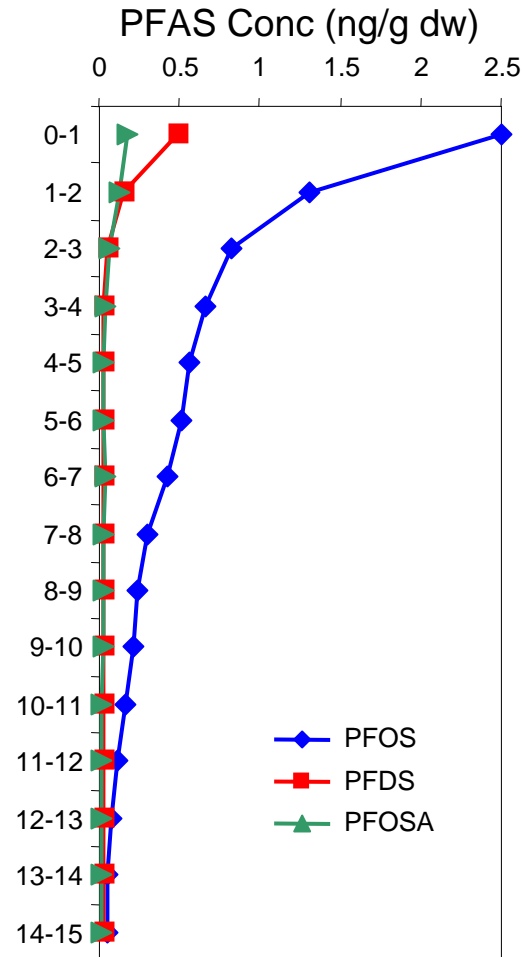
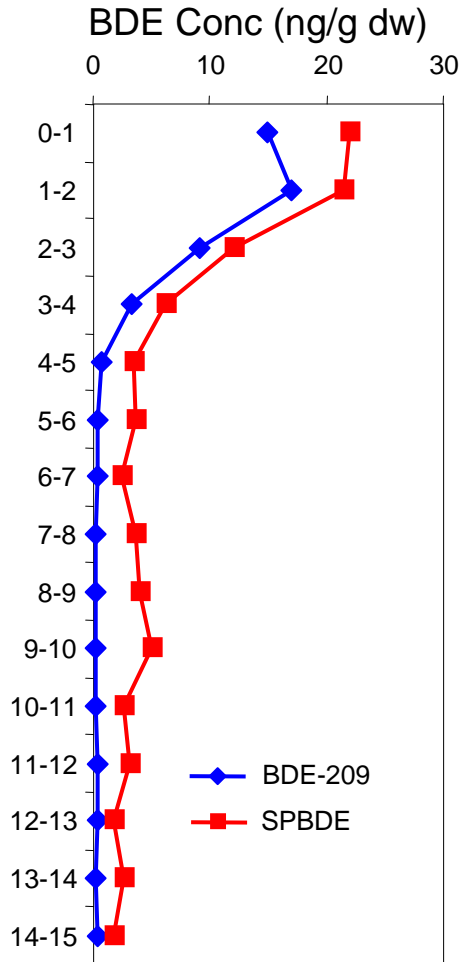
PCNs in Lake Ontario Sediment



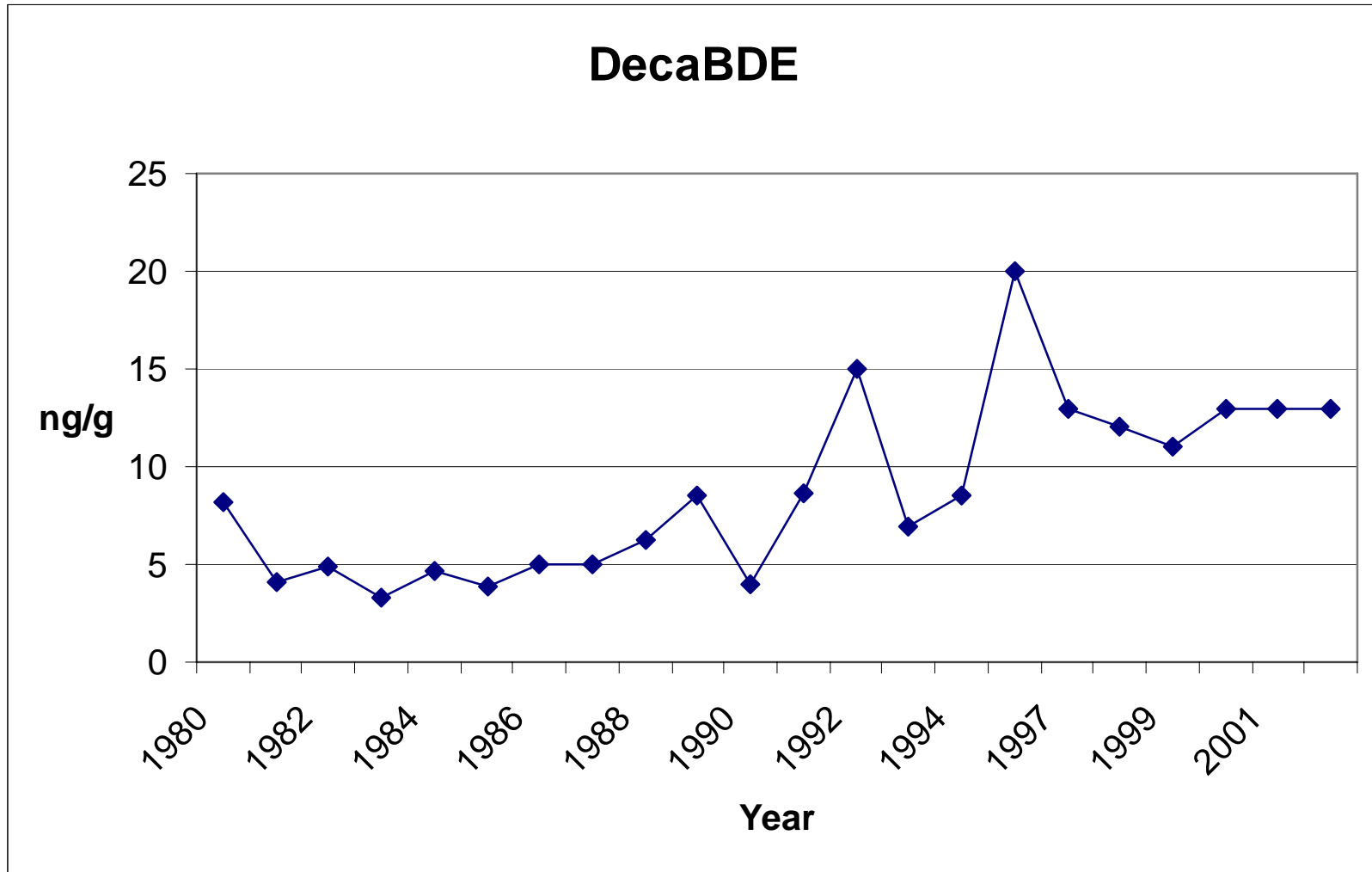
PCDDs/Fs in Lake Ontario Sediment



Fluoros and BFRs in Lake Ontario Sediment



Niagara River Upstream/Downstream 1980 - 2003



Future Work

- Lake-wide survey 2007?
 - 250k – 500k
- Sediment coring at Niagara River Bar (joint with USEPA)
- Sediment traps at 6 locations off the mouth of the Niagara River (ongoing)