

DMITRY BELETSKY
Research Scientist
CIGLR, SEAS, University of Michigan

ADDRESS

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EDUCATION

1992 Ph.D., Physical Limnology/ Oceanography, Institute of Limnology,
Russian Academy of Sciences, St.Petersburg, Russia.

1982 M.S., Marine Engineering, Russian State Hydrometeorological University, St.Petersburg, Russia.

RESEARCH INTERESTS

- Lake Hydrodynamics
- Hydrodynamic Forecast Systems and Model Evaluation
- Ice Processes and Modeling
- Coastal Meteorology
- Physical-biological coupling

PROFESSIONAL EXPERIENCE

2015-present Research Scientist, CIGLR, SEAS, University of Michigan
2009-2015 Associate Research Scientist, CILER, SNRE, University of Michigan
2004-2009 Assistant Research Scientist, CILER, SNRE, University of Michigan
1998-2004 Assistant Research Scientist, Department of Naval Architecture and Marine Engineering,
University of Michigan
1995-1998 Research Fellow, CILER, University of Michigan.
1994-1995 Visiting Scientist, NOAA Great Lakes Environmental Research Laboratory
1992-1994 Associate Research Scientist, Institute for Lake Research,
Russian Academy of Sciences, St.Petersburg, Russia
1989-1992 Assistant Research Scientist, Institute for Lake Research,
Russian Academy of Sciences, St.Petersburg, Russia
1986-1989 Research Assistant, Institute for Lake Research,
Russian Academy of Sciences, St.Petersburg, Russia
1985-1986 Research and Teaching Assistant, Russian State Hydrometeorological University,
St.Petersburg, Russia

RECOGNITIONS AND AWARDS

- Chandler-Misener Award (for most notable paper), International Association for Great Lakes Research, 2015, <http://www.iaglr.org/as/cm.php>
- AGU Editor's Highlight paper, 2012 <http://www.agu.org/pubs/journals/highlights.shtml>
- Chandler-Misener Award (for most notable paper), International Association for Great Lakes Research, 2008, <http://www.iaglr.org/as/cm.php>
- Scientific Achievement Award, CILER, University of Michigan, 2007
- Outstanding Scientific Paper Award, NOAA Office of Oceanic and Atmospheric Research, 2006
- Best Scientific Paper Award, NOAA GLERL, 2004
- Research Scholarship, Central European University, Budapest, Hungary, 1994
- Central European University Summer Fellowship, Budapest, Hungary, 1993

MEDIA EXPOSURE

Articles on JGLR 2017 paper

ReNew Canada & Water Canada

<http://watercanada.net/2017/modeling-the-spread-of-aquatic-invasive-species-in-great-lakes/>

CIGLR Spring 2017 eNewsletter

<https://cigl.seas.umich.edu/spring-2017-e-newsletter/featured-research-invasive-hitchhikers>

Articles (select) on PNAS 2013 paper

Science

<http://news.sciencemag.org/sciencenow/2013/04/scienceshot-an-algal-bloom-for-t.html?ref=hp>

Time

<http://science.time.com/2013/04/02/report-predicts-ever-bigger-lake-erie-algae-blooms/>

National Geographic

<http://news.nationalgeographic.com/news/2013/04/pictures/130423-extreme-algae-bloom-fertilizer-lake-erie-science/>

Articles on GRL 2012 paper

Earth, American Geosciences Institute. Lake Erie has it all backward. August 2012, vol.57, No 8.

AGU Research Spotlight paper, *EOS, Transactions of the American Geophysical Union*, vol. 93, no 21, May 22, 2012. <http://onlinelibrary.wiley.com/doi/10.1029/2012EO210014/abstract>

PROFESSIONAL ORGANIZATIONS

- International Association for Hydraulic Research (2014-2016)
- Great Lakes Observing System (since 2009)
- International Association for Great Lakes Research (since 1994)
- American Geophysical Union (since 1994)
- American Meteorological Society (since 1994)
- Russian Geographical Society (since 1987)

PROFESSIONAL SERVICE

Member, CIGLR Council of Fellows (2011- 2016)

Editor (jointly with J. Wang and H.T Shen):

- Proceedings of the 23rd IAHR International Symposium on Ice. Ann Arbor, Michigan, USA, May 31-June 3, 2016. Published by: International Association for Hydro-Environment Engineering and Research -IAHR- P^a Bajo Virgen del Puerto, 3 28005 Madrid, Spain. Copyright: IAHR, 2016. ISSN: 2414-6331

Conference Co-Chair:

- IAHR International Symposium on Ice, Ann Arbor, MI, 2016

Session Chair:

- International Association for Great Lakes Research, 2005-2017
- Ocean Sciences Meeting (American Geophysical Union), 2012-2014

Manuscript Reviewer: *American Geophysical Union, American Society of Civil Engineers, Aquatic Sciences, Boreal Environment Research, Canadian Journal of Fisheries and Aquatic Sciences, Dynamics of Atmospheres and Oceans, Estuaries and Coasts, Estuarine, Coastal and Shelf Sciences, Journal of Atmospheric and Oceanic Technology, Journal of Geophysical Research (Oceans), Journal of Great Lakes Research, Journal of Hydraulic Engineering, Journal of Limnology, Journal of Marine Research, Journal of Marine Sciences, Journal of River Basin Management, Limnology and Oceanography, Monthly Weather Review, Natural Hazards, Ocean Dynamics, Water Resources Research, Water Quality Research Journal of Canada.*

Proposal Reviewer:

- CAMEO (Comparative Analysis of Marine Ecosystem Organization - joint NOAA-NSF initiative)
- Cataraqui Region Conservation Authority (Canada)
- Great Lakes Fishery Commission
- National Science Foundation
- NOAA
- University of Minnesota Grand Challenges Research initiative
- University of Wisconsin Milwaukee, Office of Research
- Wisconsin Sea Grant

Consultant:

- Baird & Associates (Canada)
- HydroQual (USA)
- LimnoTech (USA)
- National Hydraulic Research Institute (Canada)
- National Water Research Institute (Canada)
- Pirkanmaa Regional Environment Centre (Finland)

Professional Activities:

- Invited participant, Lake Champlain – Richelieu River Study Meeting, April 4-6, 2018, Venise-en-Quebec, Canada
- Invited participant, Meteotsunami Forecasting and Warning System Workshop, June 29-31, 2017, Ann Arbor, MI.
- Invited participant, GREAT LAKES WATER QUALITY AGREEMENT PHOSPHORUS LOAD RESPONSE MODELING MEETING, April 9-10, 2014, Ann Arbor, MI
- Invited participant, Great Lakes Commission Workshop. November 28-29, 2012, Ann Arbor, MI
- Invited participant, University of Michigan sponsored workshop “The North American Great Lakes: Comparisons with the Baltic Sea”, February 20, 2007, Ann Arbor, MI.
- Invited participant, IOOS Community Modeling Workshop, November 28-29, 2006, Washington, DC.
- Invited participant, Lake Michigan Mass Balance Project modeling peer review. July 27-28, 2004, Romulus, MI.
- Invited participant, EPA-sponsored workshop on beach closure forecasting. November 2003, Cincinnati, OH.
- Invited participant, NOAA Sponsored Great Lakes Issues Workshop, January 20-21, 2003, Ann Arbor, MI.
- Advisor Member, ASCE Task Committee on Climatic Effects on Lake Hydrodynamics and Water Quality, 1994-99.
- Invited participant, NOAA Sponsored Remote Sensing and Modeling Great Lakes Ice Workshop, October 8-9, 1997, Alexandria, VA.
- Invited participant, Russian-Finnish Physical limnology workshop, November 19-20, 1988,

Petrozavodsk, Russia.

- Participant in 10 scientific expeditions to the North Atlantic Ocean, the Mediterranean Sea, the Baltic sea, the Great Lakes and largest European lakes.

GRADUATE STUDENT ADVISOR/SPONSOR/COMMITTEE MEMBER

Huayun Zhou (SNRE, 2016 - 2018)
Kimberly Huinh (NWU, CILER summer fellow, 2014)
Xioashen Yin (SNRE, 2011 - 2013)
Daniel Rucinski (SNRE, 2008- 2013)
Eric Maxeiner (NAME, 1999-2001)
Sophie Ancel (NAME, 2002-2003)
Chenshin Li (Statistics, 2003-2004)
Kathryn Clevenger (NAME, 2004)

RESEARCH GRANTS (over \$5M total)

Beletsky, D. (PI). Lake Champlain Hydrodynamic Flood Forecasting System. International Joint Commission (via NOAA GLERL), 2017-2022	\$264,898
Beletsky, D. (PI) GLRI Nearshore: Circulation and Thermodynamics (EPA via NOAA GLERL), 2016-2017	\$163,307
Stow, C., E. Anderson, S. Ruberg, D. mason, M.Rowe, T. Johengen, D. Beletsky (Co-PI), H. Zhang, A. Burton, S. Moegling, P. Collingsworth. LEOFS-Hypoxia: Operational Lake Erie Hypoxia Forecasting. (NOAA NOS NCCOS) 2016-2021. Total project cost \$575,421	\$85,000
Beletsky, D. (PI) Lake Circulation and GLCFS: Can HRRR meteorological forcing conditions be used to improve hydrodynamic forecasting skill? (NOAA GLERL), 2015-2017	\$59,780
Beletsky, D. (PI) Great Lakes Heat Budget-Water Budget Connections (NOAA GLERL), 2015-2017	\$40,896
Beletsky, D. (PI) CILER Hosting 2016 IAHR International Ice Symposium (NOAA GLERL)	\$39,190
Duhaime, M., K. Wigginton, D. Beletsky (Co-PI). Microplastics in the Great Lakes: Towards establishing a long-term multidisciplinary research platform to assess the impact of microplastics on Laurentian Great Lakes ecosystem health. (UM WATER Center, 2014-2015)	\$270,463
Mason, D., E.S. Rutherford, A. Adamack, H.Zhang, D. Beletsky (Co-PI). Assessing risk of Asian carp invasion and impacts on Great Lakes food webs and fisheries. (USFWS, 2011-2014) Total project cost \$595,992.	\$551,409
Lodge, D.M., L. Chadderton, R. Jensen, E.S. Rutherford, D. Beletsky (Co-PI) et al. Forecasting spread and bioeconomic impacts of aquatic invasive species from multiple pathways to improve management and policy in the Great Lakes. (NOAA CSCOR- EPA GLRI), 2010-2015. Total project cost \$4,949,120.	\$585,665
Roehm, C.L, S.Vermette, E.J. Anderson, D.Beletsky (Co-PI) , V. Santos and L. Blume. Observing systems and monitoring in nearshore Lake Erie. (EPA GLRI), 2010-2013. Total project cost \$962,583.	\$169,056
Michalak, A., D. Posselt, D. Scavia, A. Steiner, D. Brown, D. Beletsky (Co-PI) et al. Extreme events impacts on water quality in the Great Lakes: Prediction and	

management of nutrient loading in a changing climate. (NSF CBET 1039043), 2011-2015, Total project cost \$4,992,854.	\$332,824
Beletsky, D., (PI) . Developing a predictive model of the hydrodynamics of Lake Champlain. Lake Champlain Research Consortium, 2010-2011	\$75,600
Beletsky, D., (PI) . Measuring and modeling the impact of ice on surface fluxes, thermal structure and circulation in Lake Erie. (NSF OCE 0927643), 2009-2014.	\$606,770
Beletsky, D. (PI) . Hydrodynamic modeling system to predict real-time circulation and thermal structure in Lake Champlain (NOAA OAR #NA06OAR4600224), 2006-2009.	\$132,254
Beletsky, D. (PI) . High-resolution hydrodynamic model of Lake Ontario (National Water Research Institute, Environment Canada), 2008.	\$10,000
Wang, J. and D. Beletsky (Co-PI) . Modeling Great Lakes ice and revealing linkage between lake ice and climate patterns (NOAA GLERL), 2008.	\$84,336
Stow, C., S.Brandt, T.Croley, J.Dyble, G.Fahnenstiel, T.Nalepa, S.Pothoven, H.Vandeploeg, S.Peacor, M.Kaplowitz, F.Lupi, T.Hook, D. Beletsky (Co-PI) et al. MultiStress 07. Adaptive Integrated Framework (AIF): a new methodology for managing impacts of multiple stressors in coastal ecosystems (NOAA/NOS/CSCOR), 2007-2012. Total project cost \$3.5M.	\$300,446
Scavia, D., R.Bierbaum, D. Beletsky (Co-PI) et al. The Cooperative Institute for Limnology and Ecosystems Research: A new Great Lakes regional institute, (NOAA OAR) 2006-2011.	\$220,000
Scavia, D., L. Sano, D. Allan, D. Beletsky (Co-PI) et al., Ecofore 2006: Forecasting the causes and impacts of Lake Erie hypoxia (NOAA/NOS/CSCOR), 2006-2011. Total project cost \$2.5M.	\$150,000
Beletsky, D., (PI) . D. Schwab, and M. McCormick. Nearshore transport: modeling, observations and beach closure forecasting (NOAA Center of Excellence for Great Lakes and Human Health), 2004-2009.	\$416,162
Beletsky, D. (PI) and D. Schwab, Lake Erie hydrodynamic modeling (GLERL), 2004-2009.	\$47,095
Beletsky, D. (PI) . Modeling wind-induced circulation in Lake Champlain: effects of bathymetry and stratification (GLERL), 2005	\$36,000
Stein, M., B. Lesht, D. Schwab, and D. Beletsky (Co-PI) . Integrating numerical models and statistical methods. (EPA), 2003-2008 Total project cost \$6.0M.	\$18,776
Beletsky, D., (PI) . D. Mason, E. Rutherford, D. Schwab, M. McCormick, H. Vanderploeg, and J. Janssen. Modeling the influence of lake circulation patterns, upwelling events and turbulence on fish recruitment variability in Lake Michigan. (Great Lakes Fishery Trust), 2002-2005.	\$349,797
Schwab, D. and D. Beletsky (Co-PI) . Episodic Events Great Lakes Experiment – Hydrodynamic Modeling Program, (NOAA Coastal Ocean Program), 1998-2003. Total project cost \$10M.	\$600,323
Beletsky, D., (PI) . D.Schwab, J. Saylor, and G. Miller. Modeling Sediment Resuspension due to Internal Seiches in Lake Champlain (GLERL), 2000.	\$14,056
Schwab, D., D. Beletsky (Co-PI) , and P.Beier. Lake Michigan Flow Visualization on the	

World Wide Web (GLERL), 1999.	\$11,060
Beletsky, D. (PI) and J. Saylor. Numerical Modeling of Internal Seiches in Lake Champlain (GLERL), 1999.	\$11,824
Beletsky, D. (PI). Research Scholarship Award. (Central European University, Budapest, Hungary), 1994.	\$20,000

INVITED TALKS

- Great Lakes Commission Workshop. November 28-29, 2012, Ann Arbor, MI
- University of Notre Dame, December 2, 2011, South Bend, IN.
- Buffalo State College Great Lakes Center, May 13, 2010, Buffalo, NY.
- Lake Michigan Technical Committee Meeting, 23-24 August, 2008, Traverse City, MI.
- University of Michigan, February 20, 2007, Ann Arbor, MI.
- Michigan State University, November 7, 2006, East Lansing, MI.
- Lake Erie Millenium Network Conference, February 28- March2, 2006, Windsor, ON.
- EPA Workshop on Beach Closure Forecasting. November 29, 2004, Cincinnati, OH.
- Lake Michigan Mass Balance Project PCB modeling peer review. July 27-28, 2004, Romulus, MI.
- University of Wisconsin-Milwaukee, 4 June, 2003 Milwaukee, WI.
- NOAA Great lakes Issues Workshop. January 20-21, 2003, Ann Arbor, MI.
- NOAA Remote Sensing and Modeling of Great Lakes Ice Workshop, October 8-9, 1997, Alexandria, VA.
- National Hydraulic Research Institute, September 10, 1994, Saskatoon, Saskatchewan, Canada
- University of Joensuu, February 20, 1994, Joensuu, Finland.
- Physical Limnology and Water Quality Modeling of Large Lake Systems workshop, October 19-23, 1992, Petrozavodsk, Russia
- Institute of Numerical Mathematics, October 6, 1988, Moscow, Russia

Outreach Activities:

- Science judge, National Ocean Science Bowl-2005, February 2005, Ann Arbor, MI.
- Science judge, Southeastern Michigan Science Fair-1999, 2000, 2001 Ann Arbor, MI
- Science enhancement program, Ocean Science Bowl (Midwest), February 1998, Ann Arbor, MI

PEER-REVIEWED PUBLICATIONS

58. Hawley, N., D. Beletsky and J. Wang. 2018. Ice thickness measurements in Lake Erie during the winter of 2010-2011, *J. Great Lakes Res* doi.:10.1016/j.jglr.2018.04.004
57. Kramer, Annis, Wittmann, Chadderton, Rutherford, Lodge, Mason, Beletsky, Riseng, 2017. Suitability of Great Lakes for aquatic invasive species based on global species distribution models and local aquatic habitat. *Ecosphere* 8(7):e01883. 10.1002/ecs2.1883
56. Cable, R. N., D. Beletsky, R. Beletsky, K. Wigginton, B.W. Locke and M.B. Duhaime, 2017. Distribution and modeled transport of plastic pollution in the Great Lakes, the world's largest freshwater resource. *Front. Environ. Sci.* 5:45. doi: 10.3389/fenvs.2017.00045
55. Beletsky, D. R. Beletsky, E. S. Rutherford, J.L. Sieracki, J. M. Bossenbroek, W. L. Chadderton, M. E. Wittmann, G. M. Annis and D. M. Lodge. 2017. Predicting spread of aquatic invasive species by lake currents. *J. Great Lakes Res*, doi.:10.1016/j.jglr.2017.02.001.
54. Wittman, M. E., G. Annis, A.M. Kramer, L. Mason, C. Riseng, E. S. Rutherford, W. L. Chadderton, D. Beletsky, J. M. Drake, D. M. Lodge. 2017. Refining species distribution model outputs using landscape scale habitat data: Forecasting Grass Carp and *Hydrilla verticillata* establishment in the Great Lakes Region. *J. Great Lakes Res.* 43,298-307.
53. Lodge D. M., P.W. Simonin, S. W. Burgiel, R. P. Keller, J. M. Bossenbroek, C. L. Jerde, A. M. Kramer, E. S. Rutherford, M. A. Barnes, M. E. Wittmann, W. L. Chadderton, J. L. Apriesnig, D. Beletsky, R. M. Cooke, J. M. Drake, S. P. Egan, D. C. Finnoff, C. A. Gantz, E. K. Grey, M. H. Hoff, J. G. Howeth, R. A. Jensen, E. R. Larson, N. E. Mandrak, D. M. Mason, F. A. Martinez, T. J. Newcomb, J. D. Rothlisberger, A. J. Tucker, T. W. Warziniack, and H. Zhang, 2016. Risk analysis and bioeconomics of invasive species to inform policy and management. *Annual Review of Environment and Resources* 41: (Volume publication date November 2016).
52. Tucker, A.J, W. L. Chadderton, C. L. Jerde, M. A. Renshaw, K. Uy, C. Gantz, A. R. Mahon, A. Bowen, T. Strakosh, J. M. Bossenbroek, J. L. Sieracki, D. Beletsky, J. Bergner, and D. M. Lodge. 2016. A sensitive environmental DNA (eDNA) assay leads to new insights on Ruffe (*Gymnocephalus cernua*) spread in North America. *Biological Invasions*, DOI 10.1007/s10530-016-1209-z
51. Rucinski, D.K., J. V. DePinto, D. Beletsky and D. Scavia. 2016. Modeling Hypoxia in the Central Basin of Lake Erie under Potential Phosphorus Load Reduction Scenarios. *J. Great Lakes Res.* 42,1206-1211.
50. Gronewold, A.D, E. J. Anderson, B. Lofgren, P. D. Blanken, J. Wang, J. Smith, T. Hunter, G. Lang, C. A. Stow, D. Beletsky, J. Bratton. 2015. Impacts of extreme 2013-2014 winter conditions on Lake Michigan's fall heat content, surface temperature and evaporation. *Geophys. Res. Lett.*, 42, doi:10.1002/2015GL063799.
49. Zhou, Y., A. M. Michalak, D. Beletsky, Y. R. Rao, R. P. Richards. 2015. Record-breaking Lake Erie hypoxia during 2012 drought. *Environ. Sci. Technol.*, 49 (2), pp 800–807.
48. Rucinski, D.K., D. Scavia, J. V. DePinto, and D. Beletsky. 2014. Lake Erie's hypoxia response to nutrient loads and meteorological variability. *J. Great Lakes Res.*, 40, Supplement 3 (2014), 151–161
47. Scavia, D., J. D. Allan, K. K. Arend, S. Bartell, D. Beletsky, N. S. Bosch, S. B. Brandt, R.D. Briland, I. Daloglu, J. V. DePinto, D. M. Dolan, M. Anne Evans, D. Goto, H. Han, T. O. Hook, R. Knight, S. A. Ludsin, D. Mason, A. M. Michalak, P. R. Richards, J. J. Roberts, D. K. Rucinski, E. Rutherford, D. J. Schwab, T. Sesterhenn, H. Zhang, Y. Zhou. 2014. Assessing and addressing the re-eutrophication of Lake Erie. *J. Great Lakes Res.* 40, 226-246
46. Hawley, N., T. Redder, R. Beletsky, E. Verhamme, D. Beletsky, J. V. DePinto. 2014. Sediment resuspension in Saginaw Bay, *J. Great Lakes Res. Supplement* 40 (2014), 18-27.
45. Beletsky, D., N. Hawley, Y.R. Rao. 2013. Modeling summer circulation and thermal structure of Lake Erie. *J. Geophys. Res. Oceans*, 118, doi: 10.1002/2013JC008854

44. Michalak, A.M., E.J. Anderson, D. Beletsky, S. Boland, N.S. Bosch, T.B. Bridgeman, J.D. Chaffin, K.H. Cho, R. Confesor, I. Daloglu, J.V. DePinto, M.A. Evans, G.L. Fahnenstiel, L. He, J.C. Ho, L. Jenkins, T.H. Johengen, K.C. Kuo, E. Laporte, X. Liu, M. McWilliams, M.R. Moore, D.J. Posselt, R.P. Richards, D. Scavia, A.L. Steiner, E. Verhamme, D.M. Wright, and M.A. Zagorski. 2013. Record-setting algal bloom in Lake Erie caused by agricultural and meteorological trends consistent with expected future conditions. *Proceedings of the National Academy of Sciences*:5 pp. (DOI:10.1073/pnas.1216006110)
43. Beletsky, D., N. Hawley, Y.R. Rao, H. A. Vanderploeg, R. Beletsky, D. J. Schwab and S.A. Ruberg. 2012. Summer thermal structure and anticyclonic circulation of Lake Erie, *Geophys. Res. Lett.*, 39, L06605, doi:10.1029/2012GL051002.
42. Arend, K. K., D. Beletsky, J. V. DePinto, S. A. Ludsin, J. J. Roberts, D. K. Rucinski, D. Scavia, D. J. Schwab, and T. O. Höök. 2011. Seasonal and interannual effects of hypoxia on fish habitat quality in central Lake Erie, *Freshwater Biology*, 56, 366-383.
41. Stroud J., M. Stein, B. Lesht, D.J. Schwab, and D. Beletsky. 2010. An Ensemble Kalman Filter and Smoother for Satellite Data Assimilation. *J. of American Statistical Association*, vol 105, no.491: 978-990 .
40. Rucinski, D. K, D. Beletsky, J.V. Depinto, D. Schwab, and D. Scavia. 2010. A simple 1-dimensional climate based dissolved oxygen model for central basin of Lake Erie. *J. Great Lakes Res.* 36, 465-476.
39. Wang, J., H. Hu, D. Schwab, G. Leshkevich, D. Beletsky, N Hawley, and A. Clites. 2010. Development of the Great Lakes Ice-circulation Model (GLIM): Application to Lake Erie in 2003-2004. *J. Great Lakes Res.*, 36, 425-436.
38. Thupaki, P., M. S. Phanikumar, D. Beletsky, D. J. Schwab, M. B. Nevers, and R. L. Whitman. 2010. Budget analysis of *Escherichia coli* at a southern Lake Michigan beach based on three-dimensional transport modeling. *Environ. Sci. Technol.* 44, 1010-1016.
37. Schwab, D.J., D. Beletsky, J. DePinto, and D. M. Dolan. 2009. A hydrodynamic approach to modeling phosphorus distribution in Lake Erie. *J. Great Lakes Res.* 35, 50-60.
36. Stroud J., B. M. Lesht, D.J. Schwab, D. Beletsky, and M. L. Stein. 2009. Assimilation of satellite images into a sediment transport model of Lake Michigan. *Wat. Resour. Res.* 45, W02419, doi:10.1029/2007WR006747.
35. Beletsky, D. and D.J. Schwab. 2008. Climatological circulation in Lake Michigan. *Geophys. Res. Lett.*, 35, L21604, doi:10.1029/2008GL035773.
34. McCormick, M.J. T.O. Manley, D. Beletsky, A.J. Folew III, and G.L. Fahnenstiel. 2008. Tracking the surface flow in Lake Champlain. *J. Great Lakes Res.* 34, 721-730.
33. Schertzer, W.M., R.A. Assel, D. Beletsky, T.E. Croley II, B.M. Lofgren, J.H. Saylor, and D.J. Schwab. 2008. Lake Huron climatology, inter-lake exchange and mean circulation. *Journal of Aquatic Ecosystem Health & Management*, 11(2), 144-152.
32. Zhang Z., D. Beletsky, D.J. Schwab, and M. Stein. 2007. Assimilation of current measurements into a circulation model of Lake Michigan. *Wat. Resour. Res.*, 43, W11407, doi:10.1029/2006WR005818.
31. Beletsky, D., D. Mason, D.J. Schwab, E. Rutherford, J. Janssen, D. Clapp, and J. Dettmers. 2007. Biophysical model of larval yellow perch advection and settlement in Lake Michigan. *J. Great Lakes Res.* 33, 842-866.
30. Lee, C., Schwab, D.J., D. Beletsky, J. Stroud, and B. Lesht. 2007. Numerical modeling of mixed sediment resuspension, transport, and deposition during the March 1998 episodic resuspension events in southern Lake Michigan. *J. Geophys. Res.*, 112, C02018, doi: 10.1029/2005JC003419.

29. Beletsky, D., D.J. Schwab, and M.J. McCormick. 2006. Modeling 1998-2003 summer circulation and thermal structure in Lake Michigan. *J. Geophys. Res.*, 111, C10010, doi:10.1029/2005JC00322.
28. Hawley, N., T. Johengen, R. Yerubandi, S. Ruberg, D. Beletsky, S. Ludsin, B. J. Eadie, D.J. Schwab, T. Croley, and S. Brandt. 2006. Lake Erie hypoxia prompts Canada-US study. *EOS*, 87, 32: 313, 319.
27. Beletsky, D., D.J. Schwab, D.M. Mason, E. Rutherford, M.J. McCormick, H.A. Vanderploeg, and J. Janssen. 2004. Modeling the transport of larval yellow perch in Lake Michigan. Estuarine and Coastal Modeling, the 8th International Conference, ASCE, November 3-5, 2003, Monterey, CA, p.439-454.
26. Chen, C., L. Wang, J. Qi, H. Liu, J.W. Budd, D.J. Schwab, D. Beletsky, H.A. Vanderploeg, B.J. Eadie, T.H. Johengen, J. Cotner and P.J. Lavrentyev. 2004. A modeling study of benthic detritus flux's impacts on heterotrophic processes in Lake Michigan. *J. Geophys. Res.* 109: C10S11, doi:10.1029/2002JC001689
25. Chen, C., L. Wang, R. Ji, J.W. Budd, D.J. Schwab, D. Beletsky, G.L. Fahnenstiel, H.A. Vanderploeg, B.J. Eadie, and J. Cotner. 2004. Impacts of suspended sediment on the ecosystem in Lake Michigan: A comparison between the 1998 and 1999 plume events. *J. Geophys. Res.*, 109: C10S05, doi:10.1029/2002JC001687
24. Raudsepp, U., D. Beletsky, and D.J. Schwab. 2003. Basin scale topographic waves in the Gulf of Riga. *J. Phys. Oceanogr.* 33, 1129-1140.
23. Beletsky, D., D.J. Schwab, P.J. Roebber, M.J. McCormick, G. S. Miller, and J.H. Saylor. 2003. Modeling wind-driven circulation during the March 1998 sediment resuspension event in Lake Michigan. *J. Geophys. Res.*, 108(C2), 3038, doi:10.1029/2001JC001159.
22. Schwab, D.J. and D. Beletsky, 2003. The relative effect of wind stress curl, topography, and stratification on large-scale circulation in Lake Michigan. *J. Geophys. Res.*, 108(C2), 3044, doi:10.1029/2001JC001066.
21. Ji, R., C. Chen, D.J. Schwab, D. Beletsky, G.L. Fahnenstiel, T.H. Johengen, H.A. Vanderploeg, B.J. Eadie, M. Bundy, W. Gardner, and J. Cotner. 2002. influences of suspended sediments on the ecosystem in Lake Michigan: A 3D coupled biophysical modeling experiment. *Ecological Modeling*, 152, 169-190
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39. Beletsky, D. 1999. Physical processes in Great Lakes, GLERL Open House lecture, April 25, 1999, Ann Arbor, MI.
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14. O'Connor, W.P., D. Beletsky, and D.J. Schwab, 1995. Internal Kelvin waves in lakes. CGLAS/CILER Mini Symposium, January 2, Ann Arbor, MI
13. Beletsky, D., 1994. Lake circulation model studies. GLERL Seminar, December 15, Ann Arbor, MI.
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- *11. Beletsky, D., 1994. Thermal structure and circulation of Lakes Ladoga and Onega. NHRI Seminar Series, September 10, Saskatoon, Saskatchewan, Canada
- *10. Beletsky, D., 1994. Numerical modelling of wind-induced currents in Lake Ladoga. Karelian Institute Seminar Series, University of Joensuu, February 20, 1994, Joensuu, Finland .
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6. Beletsky D. 1992. Numerical Modeling of Circulation in Lake Onega. Ph.D Thesis Defense, May 20, 1992, Institute for Lake Research, Russian Academy of Science, St.Petersburg., Russia
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3. Filatov N.N., Yu.L. Demin, G.S. Dvoryaninov, D. Beletsky, and L.V. Zaitsev, 1989. Hydrodynamics of lakes: experimental investigation, numerical modeling and model verification. The 1st Int. Lake Baikal Conf., December 5 Irkutsk, Russia.
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- *1. Beletsky, D., and N.N. Filatov, 1988. Numerical simulation of circulation in Lake Onega. Insitute of Numerical Mathematics Seminar Series, October 6, 1988, Moscow, Russia

R/V CRUISES

Lake Michigan, 1 day (physical limnology), GLERL R/V Shenehon; 1994

Lake Ladoga, 7 days (physical limnology), Institute for Lake Research R/V Limneya, 1991

Lake Onega, 80 days (physical limnology), Institute for Lake Research R/V Limneya, 1987, 1988, 1989, 1990

The North Atlantic Ocean, Mediterranean Sea, Black Sea, 90 days (physical oceanography, marine chemistry), State Oceanographic Institute R/V Victor Bugaev, 1980

The Baltic Sea, 14 days (physical oceanography, marine chemistry, marine meteorology), Russian State Hydrometeorological Institute R/V Nerey, 1978.