DONALD SCAVIA
Graham Sustainability Institute
University of Michigan
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EDUCATION

Ph.D., Environmental Engineering, University of Michigan, 1980
MS, Environmental Engineering, Rensselaer Polytechnic Institute, 1974
BS, Environmental Engineering, Rensselaer Polytechnic Institute, 1973

EMPLOYMENT HISTORY

Special Counsel to U-M President for Sustainability (2009-present)
Graham Family Professor of Environmental Sustainability (2009-present)
Professor of Natural Resources and Environment, University of Michigan (2004-present)
Professor of Civil and Environmental Engineering, University of Michigan (2009-present)
Director, Graham Environmental Sustainability Institute (2009-present)
Director, Michigan Sea Grant Program (2004-2009)
Director, NOAA Cooperative Institute for Limnology and Ecosystems Research (2005-2007)
Research Assoc. Dean, School of Natural Resources & Environment, UM (2004-2006)

Chief scientist, National Ocean Service, NOAA (2002 - 2003)
Director, National Centers for Coastal Ocean Science, NOAA (1998-2002)
Director, NOAA's Coastal Ocean Program Office (1990 - 1998)
Research scientist, NOAA Great Lakes Environmental Research Lab, (1975 - 1990)
Adjunct professor, Division of Biological Sciences, University of Michigan (1980-1990)
Visiting scientist, National Sea Grant College Program Office, (1987 - 1988)
Visiting scientist, NOAA Office of the Chief Scientist (1988 - 1990)
Assistant research scientist, Rensselaer Polytechnic Institute (1974 - 1975)

PUBLICATIONS

Authored over 120 papers in refereed journals, including *Proceedings of the National Academy of Science, Science, BioScience, Limnology and Oceanography, Environmental Science & Technology, Oceanography, Canadian Journal of Fisheries and Aquatic Sciences, Estuaries and Coasts, Water Resources Research, and Ecological Modelling*. Co-editor: Ecological Modeling of Lake Ecosystems, and From the Corn Belt to the Gulf: Assessment of Alternative Agricultural Futures.

Other Positions

Scientific Society Officer

Associate Editor, *ESTUARIES*, Estuarine Research Federation, 1998-2007.
Associate Editor, *Frontiers in Ecology and Environment*, ESA, 2002-2006
Secretary, International Association for Great Lakes Research, 1983-1986.
Board of Directors, American Society for Limnology and Oceanography, 1987-1990.

Advisory Board Membership

Technical Advisory Committee, Healing our Waters Great Lakes Coalition, 2006-present
National Wildlife Federation Great Lakes Leaders Council, 2009 – present
Risk Science Center, University of Michigan, 2010-present
Erb Institute for Global Sustainable Enterprise, University of Michigan, 2005 - present
Annis Water Resources Institute, Grand Valley State, 2007 – present
North American Nitrogen Center, Cornell University, 2005-present

Mpala Wildlife Conservancy Research Center, Trustee, 2011-2014
Environmental Law and Policy Center, 2010-2013
Great Lakes Observing System Board of Directors, 2009-2013
National Research Council Committee on Missouri River Recovery 2008-2010
CLEANER/WATERS Network Science Committee, National Science Foundation, 2005-2007
Central Michigan University Biological Station, 2008-2010
Graham Environmental Sustainability Institute, University of Michigan, 2005 – 2007
Key National Indicators Initiative Environment Domain Committee, 2004-2007
State of Nation's Ecosystems, Design Committee, Heinz Center, 1993-2004
Science and Technology Advisory Committee, National Sea Grant College Program, 1995-2000
Cooperative Inst. for Coastal & Estuarine Environ. Technology, Univ. of NH, 1995-2000

Review Committee Membership
EPA Science Advisory Board Panel to review the Great Lakes Restoration Initiative, 2012
NRC Panel to review Missouri River Sediment Planning, 2011
EPA Board of Scientific Counselors Subcommittee to Review EPA Fellowship programs, 2006
Review of Darren Freshwater Institute, Rensselaer Polytechnic Institute, 2005
NOAA Office of Satellite Data, Processing, and Distribution program review 2003
Ecosystem Based Fisheries Management, Marine Fisheries Advisory Committee, 2000-2004
Multi-scale Experimental Ecosystem Research Center, University of Maryland, 1997
New Jersey Sea Grant Program review, 1989
Puerto Rico Sea Grant Program review, 1988

Interagency, Intergovernmental, and Multi-sector Committees
Vice Chair, National Ocean Partnership Program Working Group, 1996-1999
Chair, Subcommittee on U.S. Coastal Ocean Science, NSTC/CENR
Co-Chair Ecosystem Work Group, NSTC/CENR
Co-Chair Subcommittee on Ecological Systems, CENR
Chair, Hypoxia Assessment Team, CENR
Co-Chair Coastal Research and Monitoring Team, Clean Water Action Plan
Co-Chair, USGCRP Coastal Assessment Team

HONORS AND AWARDS

Certified Senior Ecologist, Ecological Society of America
Recognized as Extraordinary Commerce Employee, 2002
Department of Commerce Gold Medal, 2001
NOAA Administrator's Award, 1989, 2003
Outstanding or Sustained Superior Performance Awards, 1977, 1981-82, 1984-2004
Best Paper Award for *Journal of Great Lakes Research*, 1987
Tau Beta Pi, University of Michigan, 1976
Draper High School Hall of Fame, 1992

Student Advising

PostDocs: Margaret Kalcic, Daniel Obenour, Ibrahim Alameddine, Kyung Hwa Cho, David Bidwell, Mary Anne Evans, Myriam Larose, Yong Liu

PhD Chair/co-Chair: Daniel Rucinski, Irem Daloglu, Daniel Obenour, James Roberts, Andrew Bell

Other PhD Committees: Yuntao Zhou, Jeremy Guest, Alanood Alkhaled (Civil and Environmental Engineering, U-M); Ling Cao, Haejin Han, Kendra Walker, Christine Kirchhoff (SNRE/U-M)

Masters: Yuntao Zhou, Emily Kelly, Emily Wilke, Erica Zontek, Brian Colleran, Ken Mori, Kristina Donnelly, Daniel Fishman, Gregory Jacobs, Julie Mida, Melissa Antokal, Caitlin Ryan, Ajay Varadharajan, Nagapooja Seeba, Chelsea Ransom, Rachel Fletcher, Alicia Ritzenthaler, Steven Rippberger, Daneil Gerding, Berry Kennedy, Makely Lyon, Joshua Rego, Emily Taylor

Undergraduate Honor Students: Carolyn Hwang, Jennifer Kullgren

GRANTS, CONTRACTS, GIFTS SINCE 2005:

Title: NERRS Collaborative Science Program
Award Dates: 10/01/2014 – 09/30/2019
Award Amount: $20,000,000
Role: Principle Investigator

Title: Dow Sustainability Fellowship Program, Dow Chemical Co.
Award Dates: 01/01/2012 – 12/31/2017
Award Amount: $10,000,000
Role: Principle Investigator

Title: Great Lakes Water Center, Erb Family Foundation
Award Dates: 10/01/12 – 09/30/15
Award Amount: $4,500,000
Role: Principle Investigator

Title: Enhancing manager and stakeholder awareness of and responses to extreme precipitation effects on Lake Erie
Award Dates: 9/1/2013–8/31/2015
Award Amount: $ 275,617
Role: Principle Investigator

Title: Lake Erie Hypoxia Assessment, International Joint Commission
Award Dates: 09/01/12 – 12/30/12
Award Amount: $25,000
Role: Principle Investigator

Title: Great Lakes Integrated Sciences and Assessment Center, NOAA
Total Award Amount: $4,200,000
Total Award Period Covered: 10/1/10 – 9/30/15
Role: Principle Investigator

Title: Water Sustainability and Climate, NSF
Total Award Amount: $5,000,000
Total Award Period Covered: 1/1/10 – 12/31/15
Role: Co-Principle Investigator

Title: NGOMEX09: Integrated Ecosystem Modeling of the Causes of Hypoxia, NOAA
Total Award Amount: $5,000,000
Total Award Period Covered: 9/1/09 – 8/31/14
Role: Co-Principle Investigator

Title: Urban Climate Adaptation, Kresge Foundation
Award Dates: 07/01/11 – 06/30/14
Award Amount: $600,000
Role: Principle Investigator

Title: Climate Change Education, NSF
Total Award Amount: $1,000,000
Total Award Period Covered: 10/1/10 – 9/31/12
Role: Co-Principle Investigator

Title: Watershed-Estuary-Species Nutrient Susceptibility, NOAA
Award Dates: 07/01/05 to 06/30/10
Award Amount: $2,500,000
Role: Principle Investigator

Title: Forecasting the Causes & Impacts of Lake Erie Hypoxia, NOAA
Award Dates: 10/1/2006 – 9/30/2011
Award Amount: $2,200,000
Role: Principle Investigator

Title: Great Lakes Biological Surveillance Program, EPA
Award Dates: 02/01/07 – 01/30/09
Award Amount: $2,500,000
Role: Principle Investigator

Title: Center for Ocean Science Education Excellence-Great Lakes, NSF/NOAA
Award Dates: 12/15/05 – 11/30/09
Award Amount: $2,500,000
Role: Principle Investigator

Title: Building a new cohort of Great Lakes Scientists, NOAA
Award Dates: 07/01/05 – 06/30/08
Award Amount: $379,325
Role: Principle Investigator

Title: Building a new cohort of Great Lakes Scientists, USGS
Award Dates: 11/01/05 to 10/31/07
Award Amount: $169,995
Role: Principle Investigator

Title: Integrated Assessment of tunicate invasions on Georges Bank, NOAA
Award Dates: 05/01/05 – 8/30/07
Award Amount: $70,000
Role: Principle Investigator

Title: Cost-Benefits of Major Great Lakes Environmental Infrastructure Investments
Source of Support: Council of Great Lake Industries, Brookings Institution, Wege Foundation
Award Dates: 09/01/06 – 08/30/07
Award Amount: $20,000
Role: Principle Investigator

Title: Inventory of Navigation-related Nonindigenous Species, FWS
Award Dates: 08/08/05 – 09/30/10
Award Amount: $6,000
Role: Principle Investigator

Title: Engaging the Academic community in support of Great Lakes Restoration, NWF
Award Dates: 07/07/05 – 12/31/07
Award Amount: $7,838
Role: Principle Investigator

PEER-REVIEWED PUBLICATIONS

Steenberg, J., Timm, M., Laurent, K.L., Friedman, K.B., Krantzberg, G., Scavia, D., Creed, I.F., 2014 Living on the Edge: How we converted challenges into profitable opportunities.

Obenour, D.R., A M. Michalak, and D. Scavia 2014 Assessing biophysical controls on Gulf of Mexico hypoxia through probabilistic modeling. Ecol. Applications http://dx.doi.org/10.1890/13-2257.1

Daloglu, I. J.I. Nassauer, R.L. Riolo, D. Scavia 2014Developing a farmer typology to link agent-based models with SWAT Agricultural Systems

Bosch, N.S., M.A. Evans, D. Scavia, J.D. Allan 2014 Interacting effects of climate change and agricultural BMPs on nutrient runoff. J. Great Lakes Res.

Pryor, S.C. D. Scavia, C, Downer, M. Gaden, L. Iverson, R. Nordstrom, J. Patz, G.P. Robertson 2014. Chapter 18: Midwest. Climate Change Impacts in the United States: The Third National Climate Assessment. J.M. Melillo, T.C. Richmond, G.W. Yohe, Eds. U.S. Global Change Research Program 18:1-18

Scavia, D., J. D. Allan, K. K. Arend, S. Bartell, D. Beletsky, N. S. Bosch, S. B. Brandt, R. D. Briland, I. Daloğlu, J. V. DePinto, D. M. Dolan, M. A. Evans, T. M. Farmer,D. Goto, H. Han, T. O. Höök, R. Knight, S. A. Ludsin, D. Mason, A. M. Michalak, R. P. 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: Central Basin Hypoxia. J. Great Lakes Res. 40: 226–246. http://dx.doi.org/10.1016/j.jglr.2014.02.004

Lemos, M.C., C. Kirchhoff, S. Kalafatis, D. Scavia and R. Rood 2014 Moving climate information off the shelf: Boundary Chains and the role of RISAs as an adaptive organization. Weather, Climate, and Society.

Rucinski, D., D. Scavia**,** J. DePinto, D. Beletsky 2014 Lake Erie's hypoxia response to nutrient loads and meteorological variability. J. Great Lakes Res.

Daloglu, I. J.I. Nassauer, R.L. Riolo, D. Scavia 2014 An Integrated Social and Ecological Modeling Framework – Impacts of Agricultural Conservation Practices on Water Quality. Ecology and Society

Laurent, K., K. B. Friedman, G. Krantzberg, D. Scavia, I.F. Creed (in press) Scenario analysis: a tool for strategic planning to achieve a thriving Great Lakes-S. Lawrence river basin.

Orr, C.J., K.C. Williams, K. L Laurent, K. B. Friedman, G. Krantzberg, D. Scavia, I. Creed (in press) Trying Hard to Adapt to a Chaotic World: How Complex Challenges Overwhelmed Best Intentions in the Great Lakes region. J. Great Lakes Res.

Zhou, Y., D. Scavia, A.M. Michalak 2014 Nutrient loading and meteorological conditions explain interannual variability of hypoxia in the Chesapeake Bay. Limnol. Oceanogr. 59:373-374

Scavia, D., M.A. Evans, D. Obenour 2013 A scenario and forecast model for Gulf of Mexico hypoxic area and volume. Environ. Sci. Technol.http://dx.doi.org/10.1021/es4025035

Obenour, D.; D. Scavia, N.R. Rabalais; E.R. Turner; A. Michalak 2013 A retrospective analysis of mid-summer hypoxic area and volume in the northern Gulf of Mexico, 1985-2011 Environ. Sci. Technol. Supporting Information

Bosch N.S., J.D. Allan, J.P. Selegean, D. Scavia 2013 Scenario-testing of agricultural best management practices in Lake Erie watersheds. J. Great Lakes. Res. Supporting Information

Bidwell, D., T. Dietz, D. Scavia 2013 Fostering Knowledge Networks for Climate Adaptation. *Nature Climate Change.* 3:1-2

Michalak, A.M., E. Anderson, D. Beletsky, S. Boland, N.S. Bosch, T.B. Bridgeman, J.D. Chaffin, K.H. Cho, R. Confesor, I. DaloÄŸlu, J. DePinto, M.A. Evans, G.L. Fahnenstiel, L. He, J.C. Ho, L. Jenkins, T. 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. Verhamme8, D.M. Wright, M.A. ZagorskiÂ 2013 Record-setting algal bloom in Lake Erie caused by agricultural and meteorological trends consistent with expected future conditions. *Proc. Nat. Acad. Sci. 110 (16) 6448-6452* *Supporting Information*

Shriberg, M., A. Horning, K. Lund, J. Callewaert, and D. Scavia 2013 Driving Transformative Change by Empowering Student Sustainability Leaders at the University of Michigan; In : Transforming Higher Education: Stories & Strategies for Sustainability, P.F. Barlett and G.W. Chase (Eds). MIT Press

Evans, M.A. and D. Scavia 2013 Exploring estuarine eutrophication sensitivity to nutrient loading. Limnol. Oceanogr.

Richards, R. P., I. Alameddine, J.D. Allan , D.B. Baker, N. S. Bosch, R. Confesor, J.V. DePinto, D.M. Dolan, J.M. Reutter, D. Scavia 2013 Nutrient Inputs to the Laurentian Great Lakes by Source and Watershed Estimated Using SPARROW Watershed Models. J. Am. Water Res. Assoc.

Daloglu, I. K.H. Cho, D. Scavia 2012 Evaluating causes of trends in long-term dissolved reactive phosphorus loads to Lake Erie. Environ. Sci. Technol. 46:10660-10666

Obenour, D.R., A.M. Michalak,Y. Zhou, and D. Scavia. 2012. Quantifying the Impacts of Stratification and Nutrient Loading on Hypoxia in the Northern Gulf of Mexico. Environ. Sci. Technol. dxdoi.org/10.102/es204481a

EPA Science Advisory Board. 2012. Review of Great Lakes Restoration Initiative Action Plan. EPA, Washington, DC 50 pg.

Roberts, J.J., S. B. Brandt, D. Fanslow, S. A. Ludsin, S. Pothoven, D. Scavia, T. O. Höök. 2011. Effects of hypoxia on consumption, growth, and RNA:DNA ratios of young yellow perch. Trans. Amer. Fisheries Soc. 140:6, 1574-1586

Lund, K., K. Dinse, J. Callewaert, D. Scavia. 2011 Benefits of using integrated assessment to address sustainability challenges. J. Environ. Stud. Sci, DOI 10.1007/s13412-011-0047-7

Mida, J.L. D. J. Jude, J.S. Schaeffer, D.M. Warner, D. Scavia 2011 Response of *Mysis diluviana* lipids and fatty acids to changes in lower food webs in Lake Michigan and Huron. J. Great Lakes res.

Liu, Y. G.B. Arhonditsis, C. Stow, D. Scavia 2011 Comparing Chesapeake Bay Hypoxic-Volume and Dissolved-Oxygen Profile Predictions with A Bayesian Streeter-Phelps Model. Ecol. Modeling. JAWA

Roberts, J.J., S. B. Brandt, D. Fanslow, S. A. Ludsin, S. Pothoven, D. Scavia, T. O. Höök. 2011. Growth and condition of yellow perch in response to hypoxia: Synthesis of lab and field results. Trans. Amer. Fisheries Soc.

Evans, M.A., G.A. Fahnenstiel, D. Scavia 2011Incidental oligotrophication of North American Great Lakes. Environ. Sci. Technol. *45* (8), pp 3297–3303

NRC 2011 Missouri River Planning: Recognizing and Incorporating Sediment Management. National Academy of Sciences, Washington DC. 135 pp.

Evans, M.A. and D. Scavia 2010. Forecasting hypoxia in the Chesapeake Bay and Gulf of Mexico: Model accuracy, precision, and sensitivity to ecosystem change. *Environ. Res. Lett.* **6** 015001 doi: 10.1088/1748-9326/6/1/015001

Bell, A., M. Lemos, and D. Scavia. 2011. Cattle, Clean Water, and Climate Change: Policy Choices for the Brazilian Agricultural Frontier. *Environ. Sci. Technol.* 44(22): 8377-8384

Arend, K.K, D. Beletsky, J.V. DePinto, S.A. Ludsin, J. J. Roberts, D. K. Rucinski, D. Scavia, D. J.Schwab, T. O. Höök 2011 Hypolimnetic hypoxia in the central basin of Lake Erie: understanding seasonal and interannual effects on habitat quality of important fish species. *Freshwater Biology 56(1): 366-383*

Rucinski, D.K., D. Beletsky, J. V. DePinto, D. J. Schwab, 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*

Liu, Y, M.A. Evans, D. Scavia. 2010 Gulf of Mexico Hypoxia: Exploring Increasing Sensitivity to Nitrogen Loads. *Environ. Sci. Technol. 44* (15), pp 5836–5841

Fahnenstiel G.A., T. Nalepa, S. Pothoven, H. Carrick, D. Scavia. 2010. Lake Michigan lower food web: Long-term observations and Dreissena impact. *J. Great Lakes Res*. 36:1-4

Fahnenstiel, G.A., S. Pothoven, T. Nalepa, H. Vanderploeg, D. Klarer, D. Scavia. 2010 Recent changes in primary production and phytoplankton in the offshore region of southeastern Lake Michigan. *J. Great Lakes Res. 36:20-29*

Mida, J.A., D. Scavia, G. L. Fahnenstiel, S. A. Pothoven, H. A. Vanderploeg, D. M. Dolan. 2010 Long-term and recent changes in southern Lake Michigan water quality with implications for primary production. *J. Great Lakes Res.* 36: 42-49

Liu, Y. and D. Scavia. 2010. Analysis of the Chesapeake Bay Hypoxia Regime Shift: Insights from Two Simple Mechanistic Models. *Estuaries and Coasts* 33:629–639

Fishman, D., S.A. Adlerstein, D. Scavia, (in press) Phytoplankton Community Composition of Saginaw Bay, Lake Huron, during the Zebra Mussel (*Dreissena polymorpha*) Invasion: A Multivariate Analysis, J. Great Lakes Res.

Fishman, D., D. Scavia, S.A. Adlerstein (in press) Causes of Phytoplankton Changes in Saginaw Bay, Lake Huron during the Zebra Mussel Invasion. J. Great Lakes Res.

Scavia, D. and Y. Liu. 2009. Exploring Estuarine Nutrient Susceptibility. *Environ. Sci. Technol.*, 2009, 43 (10), 3474-3479

Boesch, D., L.B. Crowder, R.J. Diaz, R.W. Howarth, L.E. Mee, S.W. Nixon, N.N. Rabalais, R. Rosenberg, J.G. Sanders, D. Scavia, R.E. Turner . 2009. Nutrient enrichment drives Gulf of Mexico hypoxia, Eos Trans. Amer. Geophysical Union.

Han, H., J. D. Allan, D. Scavia. 2009. Influence of Climate and Human Activities on the Relationship between Watershed Nitrogen Input and River Export. Env. Sci, Technol. 43:1916–1922

Stow, C.A. and D. Scavia 2009. Modeling Hypoxia in the Chesapeake Bay: Ensemble Estimation Using a Bayesian Hierarchical Model. J. Marine Systems 76: 244–250

Daley, B.A. and D. Scavia. 2008. An Integrated Assessment of the Continued Spread and Potential Impacts of the Colonial Ascidian, Didemnum sp. A, in U.S. Waters. NOAA Technical Memorandum NOS NCCOS 78, 61 pp.

Swaney, D.P., D. Scavia, R.W. Howarth, R.M. Marino 2008 Estuarine Classification and Response to Nitrogen Loading: Insights from Simple Ecological Models. Estuarine and Continental Shelf Science 77: 253-263.

Scavia, D. and K.A. Donnelly 2007. Reassesing Hypoxia Forecasts for the Gulf of Mexico.. Env. Sci. Technol. 41, 8111–8117

Dubravko, J, V.J. Bierman, Jr., D. Scavia. R. Hetland. Forecasting Gulf's Hypoxia: The Next 50 Years? 2007. Estuaries and Coasts, 30(5): 791-801.

Nassauer, J.I., M.V. Santelmann, and D.Scavia (Eds). 2007 From the Corn Belt to the Gulf: Assessment of Alternative Agricultural Futures, Resources for the Future, Washington, D.C.

Donner, S. D. and D. Scavia. 2007 How climate controls the flux of nitrogen by the Mississippi River and the development of hypoxia in the Gulf of Mexico. Limnol. Oceanogr. 52(2): 856-861

Bierman, V.J Jr., S.C. Hinz; D. Justić, D.Scavia, J.A. Veil, K. Satterlee, M. Parker. 2007 Predicted Impacts from Offshore Produced Water Discharges on Hypoxia in the Gulf of Mexico. SPE Facilities, Construction, and Operations. Society of Petroleum Engineers.

Scavia, D. and S.B. Bricker 2006 Coastal Eutrophication Assessment in the United States. Biogeochemistry 79: 187–208.

Martinelli, L.A., R.W. Howarth, E. Cuevas, S. Filoso, A.Austin, L. Donoso, V. Huzsar, D. Keeney, L. L Lara, C. Llerena, G. McIssac, E. Medina, J. Ortiz-Zayas, D. Scavia, D. W. Schindler, D. Soto, and A.Townsend 2006 The origin and fate of reactive nitrogen in Latin America and the Caribbean. Biogeochemistry 79: 3-24

Scavia, D., E.A. Kelly, and J. D. Hagy III. 2006 A simple model for forecasting the effects of nitrogen loads on Chesapeake Bay hypoxia. Estuaries and Coasts 29(4): 674-684.

Scavia, D., D. Justic, and V.J. Bierman, Jr. 2004, Reducing hypoxia in the Gulf of Mexico: Advice from three models. Estuaries 27(3): 419-425.

Scavia, D. L. Dantzler, M, McPhaden, P. Moersdorf, and M. Sissenwine. 20004. Ocean observing at the National Oceanic and Atmospheric Administration. Oceanography 16(4): 61-67

Scavia, D. N.N. Rabalais, R.E. Turner, D. Justic, and W. Wiseman Jr. 2003. Predicting the response of Gulf of Mexico Hypoxia to variations in Mississippi River Nitrogen Load. Limnol. Oceanogr. 48(3): 951-956.

Rabalais, N.N., R.E. Turner, and D. Scavia. 2002 Beyond Science into Policy: Gulf of Mexico Hypoxia and the Mississippi River. BioScience 52:129-142

Scavia, D., J.C. Field, D.F. Boesch, R.W. Buddemeier, V. Burkett, D.R. Cayan, M. Fogarty, M.A. Harwell, R.W. Howarth, C. Mason, D.J. Reed, T.C. Royer, A.H. Sallenger, and J.G. Titus. 2002. Climate Change Impacts on U.S. Coastal and Marine Ecosystems. Estuaries 25: 149-164.

Boyles, R., and D, Scavia. 1997. Innovative Coastal Ocean Science at NOAA. Sea Technology.

Scavia, D. 1997. Developing a comprehensive coastal research agenda. Oceanography. 10:11-13.

Scavia, D., M. Ruggiero, and E. Hawes. 1996. Building a scientific basis for ensuring the vitality and productivity of U.S. ecosystems. Bull. Ecological Society of America. 77:125-127.

Scavia, D., R.S. Winokur, and R.A. Schmitten. 1995. NOAA's Innovative Coastal Remote Sensing Program. Sea Technology 36 (8): 27

Wenzel, L. and D. Scavia. 1993 NOAA's Coastal Ocean Program. Science for Solutions. Oceanus 36(1) Spring.

Conley, D.J. and D. Scavia. 1991. Size stucture of particulate biogenic silica in Lake Michigan. J. Great Lakes Res. 17: 18-24.

Laird, G. and D. Scavia. 1990. Sources and distribution of labile dissolved organic carbon in Lake Michigan. Limnol. Oceanogr. 35:443-447.

Pernie, G.L., D. Scavia, M.L. Pace, and H.J. Carrick. 1990. Micrograzer impact and substrate limitation of bacterioplankton in Lake Michigan. Can. J. Fish. Aquat. Sci. 47:1836-1841.

Fahnenstiel, G.l., J.f. Chandler, H.j. Carrick, and D. Scavia. 1989. Photosynthetic characteristics of phytoplankton communities in Lakes Huron and Michigan: P-I parameters and end-products. J. Great Lakes Res. 15:394-407.

Scavia, D., G.A. Lang, and J.F. Kitchell. 1988. Dynamics of Lake Michigan plankton: A model evaluation of nutrient loading, competition, predation. Can. J. Fish. Aquat. Sci., 45: 165 - 177

Fahnenstiel, G.L., D. Scavia, G.A. Lang, J. Saylor, G. Miller, and D.J. Schwab. 1988. Impact of internal waves on conventional primary production estimates. J. Plankton Res. 10: 77-87.

Kitchell, J.F, M.S. Evans, D. Scavia, and L.B. Crowder. 1988. Food web regulation of water quality in Lake Michigan. J. Great Lakes Res. 14: 109-114.

Laird, G.A., D. Scavia, G.L. Fahnenstiel, L.A. Strong, and G.A. Lang. 1988. Dynamics of Lake Michigan phytoplankton: Relationship to nitrogen and silica fluxes. Can. J. Fish. Aquat. Sci. 45: 1459-1466.

Scavia, D. 1988. The role of bacteria in secondary production. Limnol. Oceanogr. 33:1220-1224.

Fahnenstiel, G.L. and D. Scavia. 1987. Dynamics of Lake Michigan's phytoplankton: changes in surface and deep populations. Can. J. Fish. Aquat. Sci. 44: 509-514.

Fahnenstiel, G.L. and D. Scavia. 1987. Dynamics of Lake Michigan's phytoplankton: Primary production and growth. Can. J. Fish. Aquat. Sci. 44: 499-508.

Scavia, D. and G.L. Fahnenstiel. 1987. Dynamics of Lake Michigan's phytoplankton: Mechanisms controlling epilimnetic communities. J. Great Lakes Res. 13: 103-120.

Fahnenstiel, G.L. and D. Scavia. 1987. Dynamics of Lake Michigan's phytoplankton: The deep chlorophyll layer. J. Great Lakes Res.13: 285-295.

Scavia, D. and G.A. Laird. 1987. Bacterioplankton in Lake Michigan: Dynamics, controls, and significance to carbon flux. Limnol. Oceanogr. 32: 1019-1035.

Sonzogni, W.C., R.P. Canale, D.C.L. Lam, W. Lick, D. Mackay, C.K. Minns, W.L. Richardson, D. Scavia, V. Smith, and W.M.J. Strachan. 1987. Large lake models - uses, abuses, and future. J. Great Lakes Res. 13: 384-396.

Fahnenstiel, G. L., L. Sicko-Goad, D. Scavia, and E.F. Stoermer. 1986. Importance of picoplankton in Lake Superior. Can. J. Fish. Aquat. Sci. 43: 235-240.

Scavia, D., G.L. Fahnenstiel, M.S. Evans, J.T. Jude and J.T. Lehman. 1986. Influence of salmonid predation and weather on long-term Water Quality trends in Lake Michigan. Can. J. Fish. Aquat. Sci. 43: 435-443.

Laird, G.A., D. Scavia, and G.L. Fahnenstiel. 1986. Phytoplankton excretory release of carbon in Lake Michigan. J. Great Lakes Res. 12: 136-141.

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