

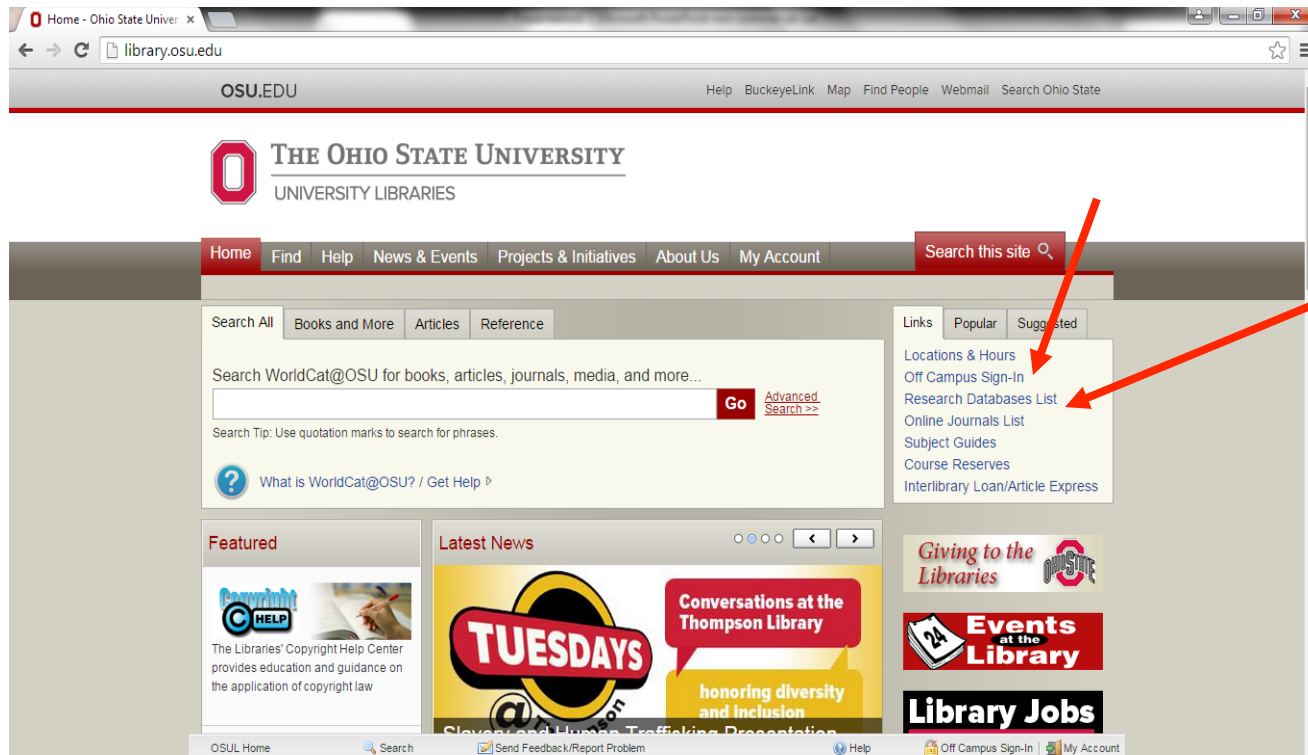
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by Erik Fulton
The Ohio State University

Environmental Science Project

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


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


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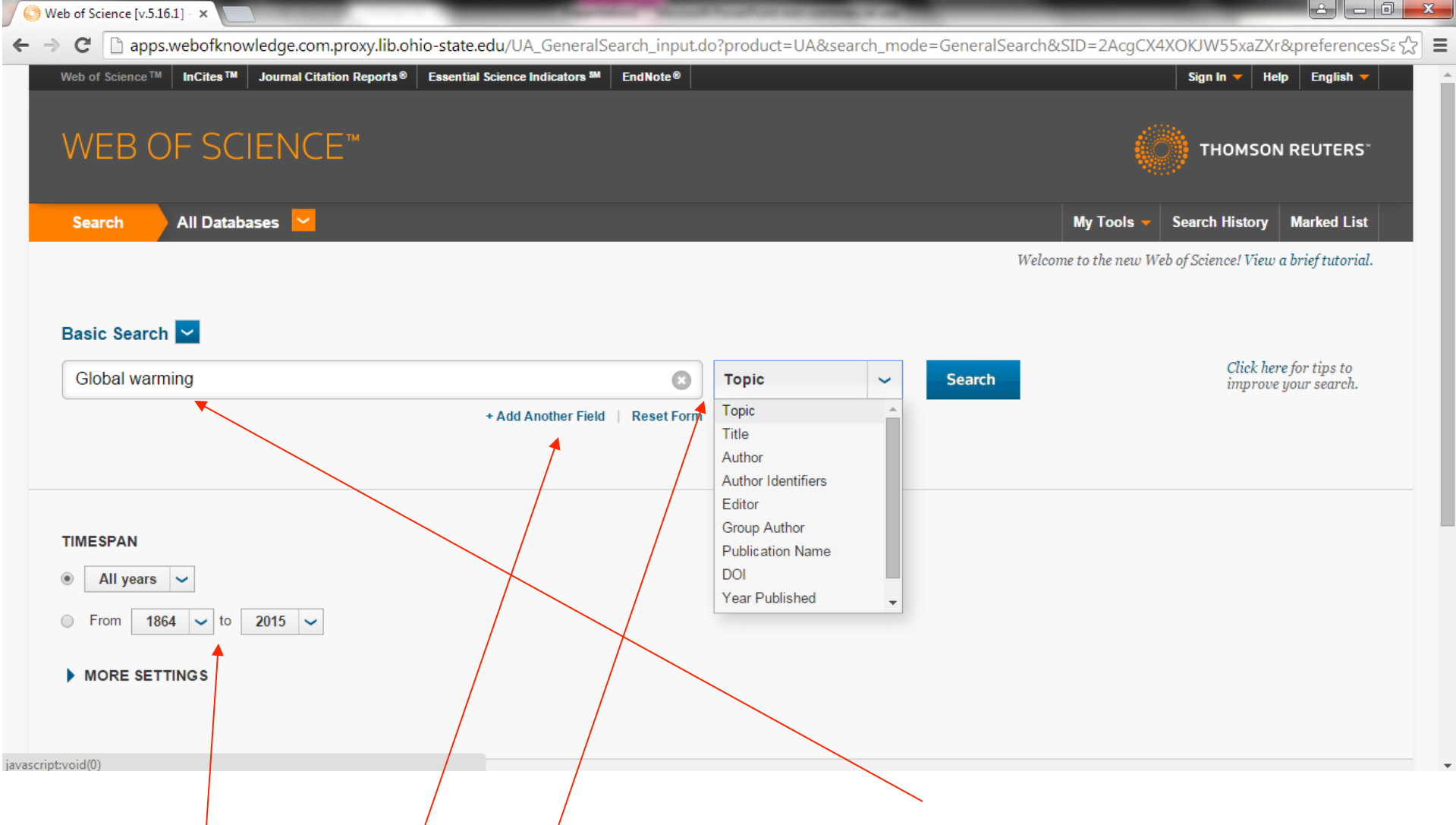
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By: Fernandez-Pello, A. C.; Lautenberger, C.; Rich, D.; et al.
COMBUSTION SCIENCE AND TECHNOLOGY Volume: 187 Issue: 1-2 Special Issue: SI Pages: 269-295
Published: DEC 10 2015
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By: Lin, Chun-Yu; Lee, Amy H. I.; Kang, He-Yau
INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE Volume: 46 Issue: 4 Pages: 733-753 Published: MAR 12 2015
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- ☐ 3. **A meta-analysis of the effects of experimental warming on soil carbon and nitrogen dynamics on the Tibetan Plateau**
By: Zhang, Xian-Zhou; Shen, Zhen-Xi; Fu, Gang
APPLIED SOIL ECOLOGY Volume: 87 Pages: 32-38 Published: MAR 2015
[Find It!](#) [View Abstract](#) Times Cited: 0 (from All Databases)
- ☐ 4. **Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images**
By: Kachouie, Nezamoddin N.; Gerke, Travis; Huybers, Peter; et al.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING Volume: 53 Issue: 3 Pages: 1135-1149
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- ☐ ECOLOGY
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By: Borrett, Stuart R.; Fath, Brian D.; Whipple, Stuart J.
ECOLOGICAL MODELLING Volume: 293 Special Issue: SI Pages: 1-3 Published: DEC 10 2014
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- ☐ 2. **Ecosystem regime change inferred from the distribution of trace metals in Lake Erie sediments**
By: Yuan, Fasong; Depew, Richard; Soltis-Muth, Cheryl
SCIENTIFIC REPORTS Volume: 4 Article Number: 7265 Published: DEC 1 2014
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- ☐ 3. **Interacting effects of climate change and agricultural BMPs on nutrient runoff entering Lake Erie**
By: Bosch, Nathan S.; Evans, Mary Anne; Scavia, Donald; et al.
JOURNAL OF GREAT LAKES RESEARCH Volume: 40 Issue: 3 Pages: 581-589 Published: SEP 2014
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- ☐ 4. **Re-eutrophication of Lake Erie: Correlations between tributary nutrient loads and phytoplankton biomass**
By: Kane, Douglas D.; Conroy, Joseph D.; Richards, R. Peter; et al.
JOURNAL OF GREAT LAKES RESEARCH Volume: 40 Issue: 3 Pages: 496-501 Published: SEP 2014
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- ☐ 5. **Distribution and abundance of larval lake whitefish (Coregonus clupeaformis) in Stakes Bay, Lake Erie**
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3. Distribution and abundance of larval lake whitefish (Coregonus clupeaformis) in Stokes Bay, Lake Huron
By: Ryan, Kathleen M.; Crawford, Stephen S.
JOURNAL OF GREAT LAKES RESEARCH Volume: 40 Issue: 3 Pages: 755-762 Published: SEP 2014
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4. Thermal habitat quality of aquatic organisms near power plant discharges: potential exacerbating effects of climate warming
By: Coulter, D. P.; Sepulveda, M. S.; Troy, C. D.; et al.
FISHERIES MANAGEMENT AND ECOLOGY Volume: 21 Issue: 3 Pages: 196-210 Published: JUN 2014
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Interacting effects of climate change and agricultural BMPs on nutrient runoff entering Lake Erie

By: Bosch, N (Bosch, Nathan S.)^[1]; Evans, MA (Evans, Mary Anne)^[2]; Scavia, D (Scavia, Donald)^[3]; Allan, JD (Allan, J. David)^[3]

JOURNAL OF GREAT LAKES RESEARCH
Volume: 40 Issue: 3 Pages: 581-589
DOI: 10.1016/j.jglr.2014.04.011
Published: SEP 2014
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Abstract

Agricultural best management practices (BMPs) have been implemented in the watersheds around Lake Erie to reduce nutrient transfer from terrestrial to aquatic ecosystems and thus protect and improve the water quality of Lake Erie. However, climate change may alter the effectiveness of these BMPs by altering runoff and other conditions. Using the Soil and Water Assessment Tool (SWAT), we simulated various climate scenarios with a range of BMPs to assess possible changes in water, sediment, and nutrient yields from four agricultural Lake Erie watersheds. Tile drain flow is expected to increase as is the amount of sediment that washes from land into streams. Predicted increases in tributary water flow (up to 17%), sediment yields (up to 32%), and nutrient yields (up to 23%) indicate a stronger influence of climate on sediment compared to other properties. Our simulations found much greater yield increases associated with scenarios of more pronounced climate change, indicating that above some threshold climate change may markedly accelerate sediment and nutrient export. Our results indicate that agricultural BMPs become more necessary but less effective under future climates; nonetheless, higher BMP implementation rates still could substantially offset anticipated increases in sediment and nutrient yields. Individual watersheds differ in their responsiveness to future climate scenarios, indicating the importance of targeting specific management strategies for individual watersheds. (C) 2014 International Association for Great Lakes Research. Published by Elsevier B.V. All rights reserved.

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Appendix A. Supplementary data
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Journal of Great Lakes Research
Volume 40, Issue 3, September 2014, Pages 581–589

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Interacting effects of climate change and agricultural BMPs on nutrient runoff entering Lake Erie

Nathan S. Bosch^a, Mary Anne Evans^{b, 1}, Donald Scavia^{c, 2}, J. David Allan^{c, 3}

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Highlights

- Model performance is compared across six watersheds draining into Lake Erie.
- Model performance was best in agricultural and forested watersheds.
- Model performance was influenced by the availability of observational data.
- Trade-offs in calibrating for hydrologic vs. water quality model performance exist.
- Future use of these models for various scenario testing is reasonable and warranted.

Abstract

Agricultural best management practices (BMPs) have been implemented in the watersheds around Lake Erie

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Uncertainties in SWAT extreme flow simulation un...
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