

Great Lakes Fish Monitoring and Surveillance Program Peer-Reviewed Publications (updated April 2016)

- Batterman, S., Chernyak, S., Gwynn, E., Cantonwine, D., Jia, C., Begnoche, L., Hickey, J.P., 2007. Trends of brominated diphenyl ethers in fresh and archived Great Lakes fish (1979 – 2005). *Chemosphere*. (69): 444 – 457.
- Bhavsar, S.P., D.A. Jackson, A. Hayton, E.J. Reiner, T. Chen, and J. Bodnar. 2007. Are PCB levels in fish from the Canadian Great Lakes still declining? *Journal of Great Lakes Research*. 33: 592-605.
- Bhavsar, S.P., S.B. Gewurtz, D.J. McGoldrick, M.J. Keir, and S.M. Backus. 2010. Changes in mercury levels in Great Lakes fish between 1970s and 2007. *Environmental Science and Technology*. 44: 3273-3279.
- Carlson, D.L., and Swackhamer, D.L., 2006. Results from the U.S. Great Lakes Fish Monitoring Program and Effects of Lake Processes on Contaminant Concentrations. *Journal of Great Lakes Research*. 32 (2): 370 – 385.
- Carlson, D.L., DeVault, D.S., and Swackhamer, D.L., 2010. On the rate of decline of persistent organic contaminants in lake trout (*Salvelinus namaycush*) from the Great Lakes, 1970-2003. *Environmental Science and Technology*. 44 (6): 2004-10.
- Chang, F., Pagano, J.J., Crimmins, B.S., Hopke, P.K., Milligan, M.S., Holsen, T.M., 2012. Temporal trends of polychlorinated biphenyls and organochlorine pesticides in Great Lakes fish, 1999-2009. *Science of the Total Environment*, 439, 284-290.
- Clark, J.R., De Vault, D.S., Bowden, R.J., and Weishaar, J.A. 1984. Contaminant analysis of fall run coho salmon. *Journal of Great Lakes Research*. 10: 38 - 47
- Crimmins, B.S., Pagano, J.J., Milligan, M.S., Holsen, T.M., Environmental Mass Spectrometry in the North American Great Lakes Fish Monitoring and Surveillance Program, 2013. *Australian Journal of Chemistry* 66, 798-806.
- Crimmins, B.S., Pagano, J.J., Xia, X., Hopke, P.K., Milligan, M.S., Holsen, T.M., 2012. Polybrominated diphenyl ethers (PBDEs) in Great Lakes lake trout: Turning the corner on PBDEs in the Great Lakes 1982 -2008. *Environmental Science and Technology*, 46:9890-9897
- Crimmins, B.S., Xia, X., Hopke, P.K., Holsen, T.M., 2014. A Targeted/non-targeted Method for Perfluoroalkyl Carboxylic Acid and Sulfonate Analysis in Whole Fish using Quadrupole Time of Flight Mass Spectrometry and MS^e, *Analytical and Bioanalytical Chemistry* 406, 1471-1480.
- De Vault, D. S., 1985. Contaminants in Fish from Great Lakes Harbors and Tributary Mouths. *Archives of Environmental Contamination and Toxicology*. 14: 587 – 594.
- De Vault, D. S., Dunn, W., Bergqvist, P. Wibert, K. and Rappe, C., 1989. Polychlorinated Dibenzofurans and Polychlorinated Dibenzo – p- Dioxins in Great Lakes Fish: A baseline Interlake Comparison. *Environmental Toxicology and Chemistry*. 8: 0 – 10.
- De Vault, D. S., Hesselberg, R., Rodgers, P.W., Feist, T.J. 1996. Contaminant Trends in Lake Trout and Walleye From the Laurentian Great Lakes. *Journal of Great Lakes Research*. 22(4):884-895.
- De Vault, D. S., Willford, W.A., Hesselberg, R.J., Nortrup, D.A., Rundberg, E.G.S., Alwan, A.K., and C. Bautista. 1986 Contaminant trends in lake trout (*Salvelinus namaycush*) from the upper Great Lakes. *Archives of Environmental Contamination and Toxicology*. 15:349-356

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De Vault, D.S., Clark, J.M., Lahvis, G., Weishaar, J. 1988. Contaminants and Trends in Fall Run Coho Salmon. *Journal of Great Lakes Research*. 14(1): 23-33.

Glassmeyer, S. T., De Vault, D. S., and Hites, R. A., 2000. Rates at Which Toxaphene Concentrations Decrease in Lake Trout from the Great Lakes. *Environmental Science and Technology*. 34: 1851 – 1855.

Glassmeyer, S.T., De Vault, D.S., Myers, T.R., and Hites, R.A. 1997. Toxaphene in Great Lakes fish: A temporal, spatial and trophic study. *Environmental Science and Techonolgy*. 31(1): 84 - 88

Hickey, J. P., S. A. Batterman, S. M. Chernyak. 2006. Trends of Chlorinated Organic Contaminants in Great Lakes Trout and Walleye from 1970 to 1998. *Archives of Environmental Contamination and Toxicology*. 50: 97 - 110.

Madenjian, C. P., DeSorcie, T. J., Stedman, R. M., Brown, E. H., Eck, G. W., Schmidt, J. L., Hesselberg, R. J., Chernyak, S. M., and Passino-Reader, D. R., 1999. Spatial Patterns in PCB Concentrations of Lake Michigan Lake Trout. *Journal of Great Lakes Research*. 25(1): 149 – 159.

Monson, B.A., Staples, D.F., Bhavsar, S.P., Holsen, T.M., Schrank, C.S., Moses, S.K.,McGoldrick, D.J., Backus, S.M., Williams, K.A. 2011. Spatiotemporal trends of mercury in walleye and largemouth bass from the Laurentian Great Lakes Region. *Ecotoxicology*. (20): 1555 – 1567.

Pacyna, E. G., J. M. Pacyna, F. Steenhuisen, and S. Wilson. 2006. Global anthropogenic mercury emission inventory for 2000. *Atmospheric Environment*. 40: 4048-4063.

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Streets, S. S., Henderson, S. A., Stone, A. D., Carlson, D. L., Simcik, M. F., and Swackhamer, D. L., 2006. Partitioning and Bioaccumulaiton of PBDEs and PCBs in Lake Michigan. *Environmental Science and Technology*. 40: 2763 – 7269.

Xia, X., Crimmins, B.S., Hopke, P.K., Pagano, J.J., Milligan, M.S., and Holsen, T.M. 2009. Toxaphene analysis in Great Lakes fish: a comparison of GC-EI/MS/MS and GC-ECNI-MS, individual congener standard and technical mixture for quantification of toxaphene. *Analytical and Bioanalytical Chemistry*. 395:457–463.

Xia, X., Crimmins, B.S., Hopke, P.K., Pagano, J.J., Milligan, M.S., and Holsen, T.M. 2012. Toxaphene trends in the Great Lakes fish. *Journal of Great Lakes Research*. 38: 31 – 38.

Xia, X., Hopke, P.K., Holsen, T.M., and Crimmins, B.S. 2011. Modeling Toxaphene in the Great Lakes. *Science of the Total Environment*. 409:792–799.

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Zananski, T.J., T.M. Holsen, P.K. Hopke, and B.S. Crimmins. 2011. Mercury trends in top predator fish of the Laurentian Great Lakes. *Journal of Ecotoxicology*. 20:1568-1576.

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Zhu, L. Y., and Hites, R. A. 2004. Temporal Trends and Spatial Distributions of Brominated Flame Retardants in Archived Fish from the Great Lakes. *Environmental Science and Technology*. 38: 2779 - 2784.