

Abstract Titles and Authors

Atmospherics:

- Air trajectory pollution climatology for the Lake Champlain Basin* - Rich Poirot, VT DEC; Paul Wishinski, VT DEC; Bret Schichtel, Washington University and Phil Girton, VT ANR
- Atmospheric mercury transport and deposition in the Lake Champlain Basin: 1992-1997* - Gerald Keeler, Univ. of Michigan; Elizabeth Malcolm; Janet Burke; Scott Deboe and Tim Scherbatskoy
- Atmospheric pollutants as a source of trace metals to the microlayer of Lake Champlain* - Lisa B. Cleckner, Gerald J. Keeler, Peter G. Meier, Joseph R. Graney and Elizabeth Esseks
- Characteristics of land use, climatology and forest ecosystems affecting deposition and transport of atmospheric pollutants in the Lake Champlain basin* - Phil Girton, VT ANR and Tim Scherbatskoy, UVM
- Current knowledge of air pollution and air resources issues in the Lake Champlain Basin* - Tim Scherbatskoy, UVM; Rich Poirot, VT DEC and Richard Artz, NOAA

Cultural and Social Issues

- Lake Champlain basin education and outreach programs* - Thomas R. Hudspeth, and representatives from CBEI
- Lake Champlain cultural and social resource management in the 1990's: you can't get to where you're going until you know where you've been* - Art Cohn, LCMM; Susan Bulmer and Ann Cousins, LCBP
- Watershed planning and Lake Champlain: An examination of the geography of environmentalism* - Richard Kujawa, Saint Michael's College

Economics and Land Use

- Demonstration of local economic/other community impacts: the Otter Creek and the City of Vergennes* - Phyllis Isley, Economic & Financial Consulting Assoc., Inc.
- Economic considerations for on-going Lake Champlain protection and restoration activities* - Anthony Artuso, Univ. of Charleston; Timothy Holmes, Holmes & Assoc. and Douglas Thomas, Economic & Policy Resources Inc.

Fisheries & Aquatic Biology

- A plankton survey of Lake Champlain* - Angela de Ruiter, Univ. of Vermont; Alan Duchovnay and Alan McIntosh, Univ. of Vermont
- Controls on phytoplankton biomass and species composition in Lake Champlain* - S.N. Levine, Univ. of Vermont; A.d. Shambaugh Univ. of Vermont; M.A. Borchardt, Marshfield Medical Foundation; M. Braner, VT Health Dept. and S. Pomeroy, Univ. of Vermont
- Ecological effects of sediment-associated contaminants in Inner Burlington Harbor, Lake Champlain* - Jerome Diamond, Tetra Tech, Inc.
- Environmental factors affecting the distribution and abundance of burrowing nymphs of the mayfly, Hexagenia limbata, in Lake Champlain* - L. R. Walrath, NY DEC

- Interspecific relationships between zebra mussels, pearly mussels, and amphipods in the south and main lake regions of Lake Champlain* - L. R. Walrath, NY DEC
- Lower trophic level interactions in Lake Champlain* - S.N. Levine, Univ. of Vermont; M.A. Borchardt, Marshfield Medical Foundation; A.d. Shambaugh Univ. of Vermont and M. Braner, VT Health Dept.
- Recent observations of malformed frogs in Vermont* - Richard Levey, VT DEC
- Spatial distribution of lipid content and congener specific PCB concentrations in Dreissena polymorpha soft tissue for the main and south lake regions of Lake Champlain* - J.I. Jones, SUNY Plattsburgh and L. R. Walrath, NY DEC
- Storage, transport, and decomposition of detritus in the LaPlatte River, VT* - Heather Galarneau, Univ. of Vermont
- The status of the Eastern Sand Darter, Ammocrypta pellucida, in Vermont* - Doug Facey, St. Michael's College

Hydrodynamics & Sediment Resuspension

- Aspects of summertime and wintertime hydrodynamics of Lake Champlain* - T.O. Manley, Middlebury College; K. Hunkins, Lamont-Doherty; G. Miller and P. Manley Middlebury College
- Large pockmarks: evidence of ground water flux into Lake Champlain* - Patricia L. Manley, S.E. Sayward, N. North, T. O. Manley, Middlebury College; and R. Pederson
- Numerical models of water movement in Lake Champlain* - Kenneth Hunkins, Lamont-Doherty and Daniel Mendelson, ASA Inc.
- Observations of Density Currents and Internal Surges in Lake Champlain* - James Saylor, NOAA; Ken Hunkins, Lamont-Doherty; Tom Manley and Pat Manley, Middlebury College
- Sediment dynamics in a furrow field, Lake Champlain* - Patricia L. Manley, T.O. Manley, Middlebury College; Kenneth L. Hunkins, Lamont-Doherty and Jim Saylor, NOAA
- The hydrology of the Lake Champlain Basin* - James B. Shanley, USGS and Jon C. Denner, USGS
- Understanding the effect of the seiche system on the south end of Lake Champlain* - Lawrence Klein and Tom Manley, Middlebury College
- Wind-generated oscillations in Lake Champlain* - Irina Marinov, Bob Prigo and Tom Manley, Middlebury College

Information Technologies

- Land cover and characteristics of the Lake Champlain Basin* - Thomas Millette, Mount Holyoke College

Management

- NYS Adirondack Park Agency programs and data* - John Banta, Adirondack Park Agency and Raymond Curran, Adirondack Park Agency
- Slurry sidedressing and topdressing can improve soil and water quality on a concentrated livestock watershed* - D. Côté; A. Michaud, Ministère del'agriculture Québec and C. Bernard
- Watershed management at a crossroads: lessons learned and new challenges following seven years of cooperation through the Lake Champlain Basin Program* - Lee Steppacher, US EPA and Eric Perkins, Lake Champlain Basin Program

Nutrients/Chemistry

(No title) - Donald Meals, Univ. of Vermont and Lenore Budd, Assoc. in Rural Development, Inc.

Lake Champlain Basin agricultural watersheds national monitoring program project - Donald Meals, , Univ. of Vermont and Sally Ober, , Univ. of Vermont

Measurements of Phosphorus Uptake by Macrophytes and Epiphytes from the LaPlatte River (VT) using ³²P in Stream Microcosms - Deborah Pelton, CRREL; Suzanne Levine, Univ. of Vermont and Moshe Braner Vermont Health Dept.

Modeling phosphorus cycling, transport and storage in stream ecosystems typical of the Lake Champlain Basin - James P. Hoffmann, Univ. of Vermont and A.E. Cassell, , Univ. of Vermont

Patterns of phosphorus export in relation to land use in the LaPlatte River watershed, Vermont - David C. Braun; Lisa J. Windhausen, Univ. of Vermont; and Deane Wang, Univ. of Vermont

Phosphorus cycling, transport, and storage in the LaPlatte River, Vermont - Deane Wang, Univ. of Vermont; E.A. Cassell, Univ. of Vermont; John C. Drake, Univ. of Vermont; James P. Hoffmann, Univ. of Vermont; Suzanne Levine, Univ. of Vermont, Donald W. Meals Jr., Univ. of Vermont; Adam Brown, Univ. of Vermont; Gregory Gustina, Univ. of Vermont; Deborah Pelton, Univ. of Vermont and Heather Shabunia, Univ. of Vermont

Phosphorus management in Lake Champlain - Eric Smeltzer, VT DEC

Response of St. Albans Bay to a reduction in point source phosphorus loading - Scott Martin, Youngstown State Univ.; Richard J. Ciotala; Prashant Malla; N.G. Subramanyaraje Urs and Prakesh B. Kotwal

Retention of spike additions of soluble phosphorus in the LaPlatte River, Vermont - Donald Meals, Univ. of Vermont; James P. Hoffmann, Univ. of Vermont; Suzanne Levine, Univ. of Vermont; E.A. Cassell, Univ. of Vermont; Dean Wang, Univ. of Vermont; John C. Drake, Univ. of Vermont; Deborah Pelton, Univ. of Vermont; Heather Galarneau, Univ. of Vermont and Adam Brown, Univ. of Vermont

Trace element concentrations in foliage over time - Ann Rea, Univ. of Michigan; Joseph Graney; Gerald Keeler and Tim Scherbatskoy

Watershed ecosystem analysis of phosphorus budgets for the Winooski River watershed - E.A. Casell, Univ. of Vermont; R.L. Kort, USDA and D.C. Braun, Stone Environmental Inc.

Toxic Substances

Analysis of fish DNA integrity as an indicator of environmental stress - Glenn Bauer, St. Michael's College; Brian Dwyer and Leah Moyer

Distribution of PCB congeners in Cumberland Bay and the main lake of Lake Champlain - R.D. Fuller, SUNY Plattsburgh; J. Jones, SUNY Plattsburgh; L.M. McIlroy, SUNY Plattsburgh and C.W. Callinan, NY DEC

Management of toxic substances within the Lake Champlain Basin - Cliff Callinan, NY DEC

Mercury cycling and transport in the Lake Champlain basin - James B. Shanley, USGS; Timothy Scherbatskoy, Univ. of Vermont; Andrea Donlon, Univ. of Vermont and Gerald Keeler, Univ. of Michigan

Physiological indicators of stress among fishes exposed to contaminated sediments from Lake Champlain - Douglas Facey, St. Michael's College; Cynthia Leclerc; Diana Dunbar; Denise Arruda; Joan Shaw and Vicki Blazer, USGS

The occurrence of arsenic in the sediments of the Lamoille drainage basin, northwest, Vermont - Russell Schuck, The Johnson Co.

Toxic substances in Lake Champlain: A review of research and monitoring efforts - Al McIntosh and Mary Watzin, Univ. of Vermont

Wildlife (Non-aquatic)

Are Champlain Valley forest fragments acting as population sinks for migratory songbirds? Evidence from the Vermont Forest Bird Monitoring Program - Steven D. Faccio, Kent P. McFarland and Christopher C. Rimmer

Nongame marsh bird abundance and habitat use in managed wetlands of the Lake Champlain Basin - Nathaniel Shambaugh

Research and management of the common tern on Lake Champlain, Vermont: a case study - Mark LaBarr, Green Mt. Audubon Society and Christopher Rimmer, VT Institute of Natural Science