



C L E A R W A T E R

Navigator

W I N T E R 2 0 0 5

REVIVAL!
DETAILS INSIDE ON PAGE 5

H U D S O N R I V E R R E P O R T C A R D

AN ECOSYSTEM IN PERIL

PLANKTON COUNTS FALL DRASTICALLY

Every two weeks between April and December, Michael Pace and his colleagues from the Institute of Ecosystem Studies in Millbrook head for their sampling station near the Kingston-Rhinecliff Bridge. They've been doing this since 1987, building a set of plankton data that starts before the invasion of the zebra mussel and chronicles its impact. One look at the graphs on this page tells the whole story.

The reasons, according to Pace, are simple. Billions of zebra mussels filter the entire volume of the Hudson River every 1-4 days. The river is well-mixed, and all 150-odd species of plankton are found at all depths, hence there is no refuge for them other than eventual drift into the brackish section of the river below the Beacon-Newburgh Bridge (zebra mussels are not salt-tolerant). The zebra mussels take plankton in with the water they are filtering, and ingest anything smaller than 1/100 of a centimeter.

Plankton are the foundation of the Hudson River food web. There are two types: tiny plants called phytoplankton and somewhat less tiny animals called zooplankton (pronounced *zoh'-oh*, not *zoo*). Phytoplankton fix carbon dioxide in the water column and present it in edible form for grazing by the zooplankton. Larval fish dine on the



Small zooplankton, such as this rotifer, have been decimated by zebra mussel filter feeding.

smallest of both types, and as they grow they adapt their feeding preferences to successively larger zooplankton.

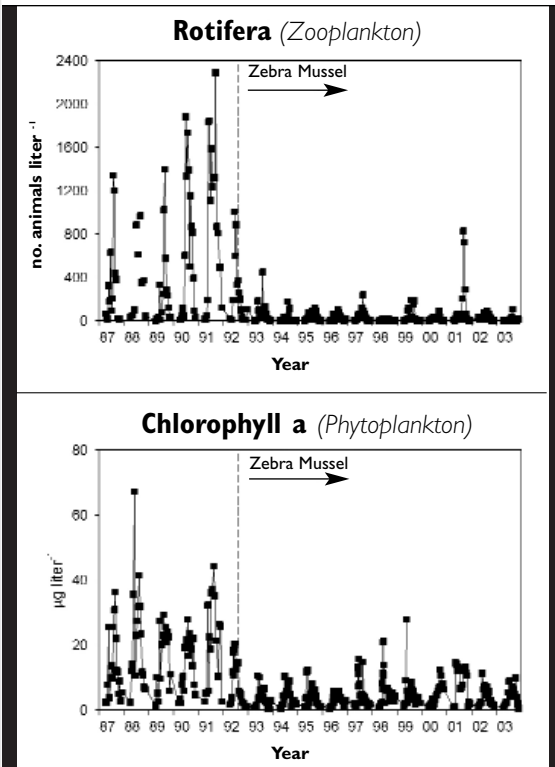
It follows, then, that as the zebra mussels vacuum up the smallest organisms they are in hot competition with larval fish of all species. In last spring's *Navigator* shad article, we reported that researchers were observing young-of-the-year shad heading for the wintertime North Atlantic at less than 75% of their pre-zebra mussel weight.

When 80-90% of the food supply has disappeared, the word that comes to mind is famine. The Hudson River's young fish are being starved. And there's nothing we can do about it, except possibly prevent it from happening again.

It may already be too late. There are new invasive species moving through the Great Lakes that have the potential to colonize the Hudson, displacing native species and further altering our already-threatened ecosystem. "We don't think the zebra mussel is the last card on the table," said Pace. "There are others. They could be five years out, or ten years – and they could have significant impacts."

The good news – if there is any – seems to be that the ecosystem may be stabilizing in its weakened state. Several native animals currently out-competed by zebra mussels have not become extinct, as was once feared, and are surviving, albeit at very low population levels. The remaining 10-20% of planktonic biomass also may be safe because at current levels there isn't enough food density to sustain continued population growth among zebra mussels. But with food scarce, fish mortality rates rising, and new threats on the way, have we seen the last of the major ecosystem changes? Probably not.

– Andy Mele, Executive Director





from the Executive Director

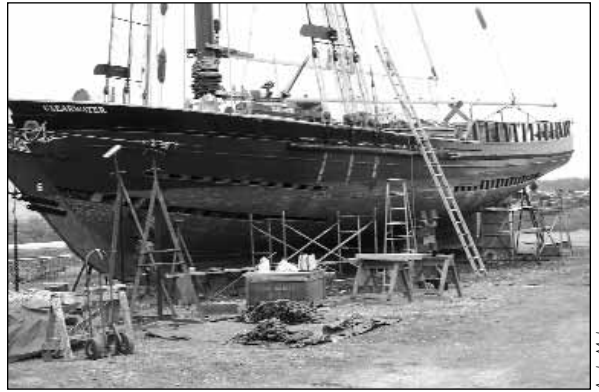
There's Good News and Bad News...

First the bad news. We weren't able to guarantee that we'd raise the money for a new foredeck, so we had to postpone the work scheduled for this winter. *Clearwater* was hauled out in Albany for inspection and a lot of planking, frames, new prop shaft and such, but for the first time since 2001 she won't get a major restoration project. We deeply regret the lost year, and will do everything in our power to make it up.

Which leads to the good news. On November 23 – just a hair too late to revive the 2004 deck project – we learned that the Dyson Foundation has awarded *Clearwater* a capital restoration grant of \$300,000 over two years!

This is the largest grant in *Clearwater's* history, and it gives us a good foothold on the \$1.6 million needed to ensure that the sloop is ready for another 35 years and a half-million youngsters coming aboard for the world's best introduction to environmental science.

With this Dyson Foundation grant, additional support from the Hudson River Improvement Fund, the Hyde & Watson Foundation and the contributions of our remarkably



Andy Mele

America's Environmental Flagship after a season of wear and tear. *Clearwater* needed eight new planks, several frame futtocks, and hundreds of feet of new caulking.

loyal and generous members, the sloop will get an entirely new foredeck and sound deck beams, a new mast and standing rigging, a new engine, and lots more new hull planking over the next two winters. A complete narrative, progress report and photos of the multi-year restoration project may be viewed at [www.clearwater.org/restoration plan.html](http://www.clearwater.org/restoration-plan.html).

We're seeing an emerging portrait of possibility; of feasibility; of a project less quixotic and more achievable with each donation. We still need to raise another \$900,000, and I have no doubt that we'll make it, with your continuing support.

Thank you!

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- Be sure to furnish all circulation information called for in item 15. Free circulation must be shown in items 15d, e, and f.
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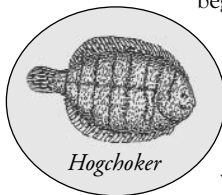
CATCH OF 2004

ABOARD THE CLEARWATER

One of the great pleasures of working on the *Clearwater* is observing first hand the fluctuating diversity of life within the Hudson's waters. The Hudson River's turbidity prevents us terrestrial creatures from seeing more than a few feet beneath the water's surface. Luckily, the *Clearwater* employs a 25-ft. trawl net on education sails to sample the fascinating life within this murky soup. This year alone, from March to October, we observed over 30 species of fish, recording a total of 2461 individuals.

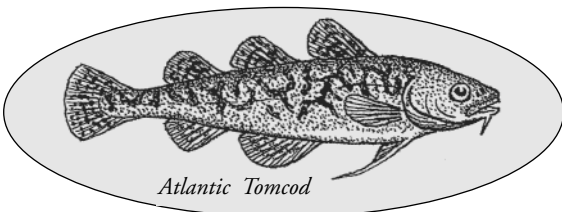
The 79th St. boat basin was our most diverse dock, with 20 different species appearing. These ranged from common Hudson fish like the White Perch to marine

*This year alone,
from March to October,
we observed over
30 species of fish,
recording a total of
2461 individuals.*



Hogchoker

species like Flounder. The Hudson is also the part time home for a number of migratory, or diadromous, visitors like the 2 ft. Atlantic Sturgeon that wowed our guests on a summer public sail. Those of you who have sailed on the *Clearwater* should be familiar with our most frequent visitor: the ubiquitous Hogchoker, showing up in 70% of our hauls. In second place was the Atlantic Tomcod, appearing in our net 41% of the time.



Atlantic Tomcod

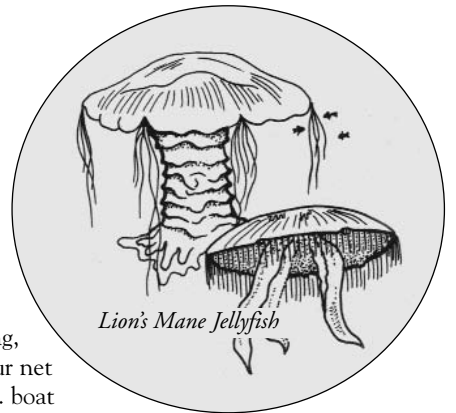
Tomcod particularly caught my attention when seething masses of young of the year (YOY), about 5cm long, appeared in our net at the 79th St. boat basin in early May. Hudson

River Atlantic Tomcod spawn under river ice near West Point during winter months, typically peaking around January. Sometime in late February, Tomcod eggs hatch; within 24 hours, our little larvae friends swim to the surface to inflate their swim bladders by gulping air and begin their slow journey southward. In May, the average trawl on the *Clearwater* contained over 24 YOY Atlantic Tomcod. In June, that number dropped to 11. By September, we saw only a handful of these fish. Our friends had grown up (in size – up to 7") as their numbers rapidly decreased. By late fall, they were ready to spawn.

Another intriguing visitor to the estuary was the Lion's Mane Jellyfish. Though these planktonic carnivores do not frequent the estuary every year, they were so common at the beginning of July that I merely had to walk a few feet down the dock in New York City to pick one up with a long handled dip net. In other locales, Lion's Mane Jellyfish are known to grow up to 6 ft. across, with tentacles dozens of feet long. Fortunately (though I do sometimes dream of nightmarish planktonic monsters) the largest individual we captured was about 18 inches in diameter. We also twice observed young Butterfish (about 2cm) huddling around the tentacles of a Lion's Mane. Immune to the tentacles' stinging nematocysts, the Butterfish is protected from predators.

This is only a small sampling of the diversity of life the Hudson supports. To learn more, and see for yourself, please join us next season on the river.

*– Daniel Kricheff
On Board Educator*



Lion's Mane Jellyfish

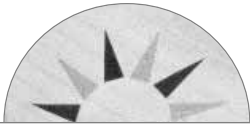
EDUCATION PREVIEW

Clearwater is ready for video action this coming Spring at the Esopus Meadows Environmental Center through a new distance learning project.

A growing trend in education, distance learning connects multiple locations via cameras and computers. It offers an exciting opportunity for Clearwater to bring the experience of the Hudson River directly into classrooms in all seasons, expanding Clearwater programs and outreach.

The Clearwater lesson, "Where in the World is EMEC?" introduces audiences to the beautiful Esopus Meadows Environmental Center and the river it borders. Students study the river and some of its navigational aids – including the Esopus Meadows Lighthouse – and have the opportunity to ask questions in "real time".

Clearwater has piloted two successful distance learning programs with classes in the Hudson Valley to date, and a third is scheduled for the coming winter.



The Garrison Institute and Clearwater Host Interfaith Sail for the Environment

Spiritual leaders from throughout the Hudson Valley gathered to share traditions and learn about the current state of the watershed on a sunset *Interfaith Sail for the Environment* from Newburgh on October 3. Co-sponsored by Clearwater and The Garrison Institute – an interfaith center and retreat facility – the sail introduced the formation of The Hudson River Project. Inspired by The Columbia River Watershed Pastoral Letter, a landmark alignment of environmental and religious concerns in northwest Washington, The Hudson River Project aims to build holistic stewardship of the Hudson watershed.

In recent years, the environmental movement has focused on scientific information in order to be effective in litigation and policy debates. In the process, the inspirational language of values and faith in the work of the movement’s founders (Thoreau, Muir, Leopold and others) was de-emphasized. The Interfaith Sail was



Chris Bowser, courtesy of The Garrison Institute

Interfaith Minister Ilfra Halley performs a dockside invocation for the Interfaith Sail for the Environment aboard Clearwater.

envisioned as the beginning of an initiative to reintegrate spirituality into the environmental dialogue within the Hudson Valley, and to become a model for water initiatives elsewhere.

FOR MORE INFORMATION VISIT WWW.GARRISONINSTITUTE.ORG AND WWW.COLUMBIARIVER.ORG.

Watershed Alliance Holds Semi-Annual Gathering

by Ryan Palmer

The Hudson River Watershed Alliance, a group formed to enhance cooperation of stakeholders involved in the protection and conservation of water resources throughout the Hudson River Watershed, held its semi-annual meeting November 7 at Mohonk Mountain House.

The event featured a presentation by Russ Johnson, who was instrumental in the formation of the Delaware River Basin Commission. Russ described the process that Delaware River Watershed stakeholders went through during the formation of their coalition and offered advice for the Alliance as they move forward.

Other presentations included:

- Roy Lamberton, Executive Director of the Batten Kill Watershed Alliance (BKWA), discussed the principles of forming an effective watershed alliance, including having all stakeholders represented.
- Bob Perschel, Environmental Director of The Garrison Institute, offered guidelines for creating an

effective vision statement for the Alliance. Bob stressed that a strong vision will inspire people to participate in the Alliance and give the organization direction.

- Fran Dunwell, coordinator of the Hudson River Estuary Program (HREP), gave an overview of the goals and objectives of the HREP, offering them as a possible framework for the Alliance. She also suggested that the Alliance and the HREP share resources in working to complete these goals.

The event also featured breakout sessions where participants developed goals for the Alliance. Categories included: Water Issues and Public Health, Sustainable Land Use, Fish and Wildlife Habitat Conservation, and Legal Issues and Ethical Concepts. In addition, the Alliance’s Organizing, Education and Outreach, and Scientific and Technical Committees will advance these goals and support the Networking and Clearinghouse functions of the Alliance.

FOR MORE INFORMATION ON THE ALLIANCE, INCLUDING HOW TO PARTICIPATE OR JOIN THE LISTSERVE, CONTACT RYAN PALMER AT (845) 454-7673 x116, OR RYAN@CLEARWATER.ORG.

CLEARWATER FESTIVAL

THE GREAT HUDSON RIVER REVIVAL 2005

June 18 & 19
Croton Point Park, Croton-on-Hudson, NY

More than a weekend of the best in music, dancing and storytelling, it's also a time of celebration, environmental education and activism.

It's been hard times for folks who strive for environmental sustainability, peace and justice. Let's gather together again this summer at the Clearwater Revival festival, a remarkable grassroots celebration on the Hudson River. Help us keep up the enthusiasm and vision we'll all need for the good fight for everything we care so deeply about. I believe this unique festival is a testimony to the strength we have as a special community to persevere through the most difficult of times.

Come to the Clearwater's Great Hudson River Revival for fun — and inspiration!

— Ron Aja, Festival Director



Consider being a festival volunteer!

It's a great way to see the festival from the inside and join a special community of Revival volunteers. Every June a thousand volunteers come together to create our vibrant festival.

New this year!

Apply online at www.clearwaterfestival.org

Three easy online steps:

1. Join Clearwater (individual rate \$35, low income rate \$15, family rate \$50)
2. Fill out application online, and pay your volunteer donation fee of \$25 to help defray costs
3. Email the completed application to Clearwater.

1-2-3 you're done!

If you can't use the Website, call our Volunteer Coordinator after March 30, and an application can be mailed or faxed to you.

Need more reasons to volunteer?

How about:

- ☀ 7 meals;
- ☀ 2 parties;
- ☀ a festival volunteer T-Shirt;
- ☀ camping privileges; and full access to both days of Revival?

OK, one more reason, the satisfaction of working with a terrific team to support Clearwater's mission!

Looking forward to getting your application, and seeing you in June!

— Susan Murphy, Volunteer Coordinator
(845) 454-7673 or volcoord@clearwater.org

GET YOUR TICKETS EARLY!

Festival tickets with advance discounts for Clearwater members will go on sale February 15, 2005. Purchase your tickets online: www.CLEARWATERFESTIVAL.org or call (800) 67-SLOOP.

CLEARWATER CALENDAR

JANUARY 8

Walkabout Clearwater Coffeehouse
Magpie and Kim and Reggie Harris.
Informal Teachabout with the Walkabout
Clearwater Chorus. A portion of
proceeds benefit Clearwater.
Katonah, NY, 7:30pm. (914) 242-0374.

JANUARY 22

Clearwater Board Meeting
Garrison Institute, 12:00pm

JANUARY 28

Choruses Join Pete Seeger for
A Night of Song in Brooklyn
Brooklyn High School for the Arts, 7:30pm
Contact Bev Grant (718) 230-4999 or
bevgrant1@aol.com
www.peoplesmusic.org

FEBRUARY 12

Walkabout Clearwater Coffeehouse
Eddie From Ohio
(see above for contact info)

MARCH 1

Deadline for July-Oct 2005
Group Sail Applications

MARCH 12

Walkabout Clearwater Coffeehouse
David Grover & the Big Bear Band
(see above for contact info)

MARCH 13

Clearwater Board Meeting and
Staff Retreat at Glynwood.

APRIL 9

Walkabout Clearwater Coffeehouse
Tom Paxton
(see above for contact info)

MAY 14

Walkabout Clearwater Coffeehouse
Christine Lavin
(see above for contact info)

MAY 22

Clearwater Board Meeting
(Location TBA)

JUNE 18-19

Great Hudson River Revival
Croton Pt Park, Croton-On-Hudson, NY

JULY 13

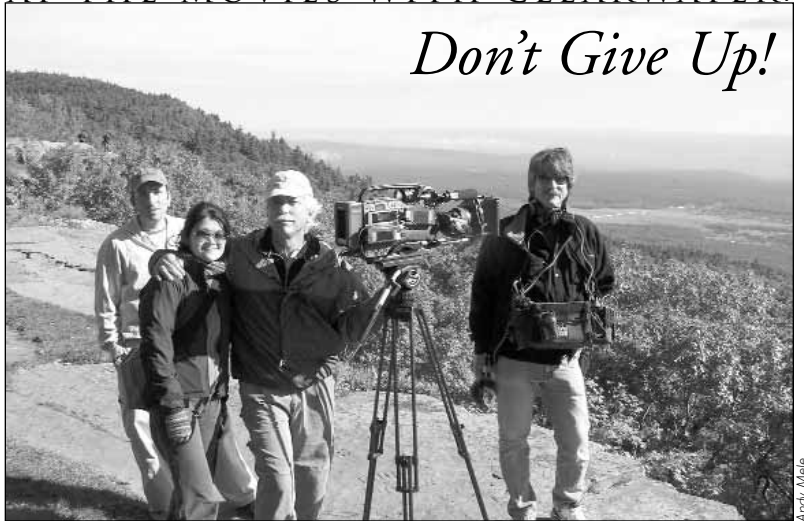
Clearwater Board Meeting
aboard the sloop *Clearwater*

OCTOBER 1

Clearwater Annual Gathering
(Location TBA)

AT THE MOVIES WITH CLEARWATER:

Don't Give Up!



Andy Mele

The Kuhnhardt film crew on location at Catskill Mountain House site.

Thanks to a grant from an anonymous donor, Kuhnhardt Productions is filming a feature-length documentary about Clearwater. Since July, the film crew has been following the *Clearwater* sloop and staff, capturing trials and tribulations, hopes and disappointments in observational "cinema verité" style. *Don't Give Up!* is a story about individuals who never gave up the fight to save and protect the Hudson River, and the hope that "this small planet" can be a cleaner and safer place for our children. It is a film about the past, present and future of the Hudson River Sloop Clearwater.

Don't Give Up! will bring viewers onboard with thousands of little sneakered feet as they explore the sloop and learn to care about one river and one boat. Local educators discuss the successes and failures they experience in their own classrooms; we follow volunteers and crew members as they live and work together day in, day out, in a confined space. We also get an inside look at the daily struggles and triumphs of running a not-for-profit grassroots organization.

Clearwater's legendary past will be woven into the present-day narrative through personal interviews with members, volunteers, crews and captains from the past 35 years. Folk singers, environmental activists, politicians, authors and artists will share their Clearwater stories – illustrated by a rich archive of materials collected by Clearwater devotees.

This film's hope, much like Clearwater's mission, is that once viewers learn to care for one boat and one river, they will learn to care for other threatened waterways and maybe even for the rest of "this small planet". And, most importantly, that they will never give up!

For the last eighteen years, Kuhnhardt Productions has produced critically acclaimed historical programming for PBS and the major networks. Founder Peter W. Kuhnhardt is a ten-year veteran of ABC News and winner of three Emmy Awards.

SLOOP CLUB ANNOUNCEMENTS

ULSTER COUNTY FRIENDS OF CLEARWATER

Meetings on the 3rd Sunday of each month, include potluck supper and presentation (music, speaker, short film, letter-writing, etc.). Contact Susan Murphy at: sjmurphy@hvc.rr.com or 845-246-0697 for details.

UPCOMING...

LONG ISLAND FRIENDS OF CLEARWATER!

Clearwater Board of Director member, Peter Lamia, is organizing a Long Island Friends of Clearwater. Please contact Peter at palgriz@aol.com or (516) 810-9288 if you'd like to join!

VISIT WWW.CLEARWATER.ORG FOR FULL CALENDAR AND UPDATES.



*Thank you for supporting
America's Environmental Flagship!*

Last year, 46% of Clearwater's revenue came directly from the following organizations and individuals. Clearwater would like to express our deepest gratitude for this support, which is critical to the success of our programs and the stewardship of the wonderful sloop *Clearwater*.

Organizations

- Around Foundation
- The Bay Foundation
- C & B Automotive
- Carnegie Corporation of NY
- J. P. Morgan Chase
- Citigroup Foundation
- The Dickler Family Foundation
- The Dyson Foundation
- Earth Share
- Ralph V. Ellis Inc.
- The Gage Fund
- Garden Club of Orange, Dutchess
- Hudson River Improvement Fund
- IBM International Foundation
- Jewish Communal Fund
- The J. M. Kaplan Fund
- Kurz Family Foundation
- Sydney & Marjorie Krause Foundation
- Levitt Foundation
- Lovinger Family Foundation
- James A. Macdonald Foundation
- Markertek Video Supply
- George & Miriam Martin Foundation
- James J. McCann Charitable Trust
- Mills Family Foundation
- The Musser Fund
- New York City Environmental Fund
- New York Department of Environmental Conservation
- New York Mercantile Exchange
- New York State Council on the Arts
- The Philanthropic Collaborative
- The Prospect Hill Foundation
- R & R Foundation
- Riverlovers Inc.
- Rotunda Foundation
- Sligar Sattelbergar Family
- The Starr Foundation
- Robert & Nancy Stover Memorial Fund
- Unilever U. S. Foundation

- Vassar College
- Walkabout Clearwater
- Yonkers Paddling & Rowing Club

Benefactors

(\$5000 and up)

- Roz Balkin & Bob Whitcomb
- Estate of Mary B. Cole
- Christopher & Sharon Davis
- Neil Lipinski & Joanne Pappas
- Andre P. Mele
- Anne Todd Osborn & Frederick Osborn III
- George W. Perkins, Jr.
- Lisa R. Sarajian
- Cindy C. Secunda
- Pete & Toshi Seeger
- Ellyne Skove
- Dar Williams

Sailing Masters

(\$1000-\$4999)

- Abranowicz-Raisfeld Family
- Scott Berwick
- Peter & Karyl Cafiero
- Bruce Cobern
- David W. Conklin
- Phyllis Dake
- Douglas Durst
- Margery & Irwin Gaffin
- Seth & Helene Godin
- Thomas & Virginia Gordon
- Mrs. Charles Henderson
- Kate Herman
- Stephen D. Hopkins
- Samuel G. Huber
- Trent & Francesca Jones
- Ned & Ferris Kelley
- Peter R. Kellogg

- Mary & Bill Lunt
- John & Susanne Manley
- Helen Mattin
- Richard & Margaret Pennington
- Frederic C. Rich
- Ann Roberts
- Steven Rockefeller
- Sligar Sattelbergar Family
- Susan Schwimmer & Harry Sunshine
- William B. & Yvonne Ann Stutler
- Gregory & Lillian Whitehead
- Joshua & Advah Zinder

Individuals, Families and Mariners (\$1-\$999)

We all join in extending a huge thank you to our 5,025 generous donors who gave between \$1 and \$999 in 2004. Together, these gifts totaled over \$334,901! We are so grateful for your generosity.

Heartfelt thanks to the family and friends who gave in memory of:

- Jean Bauman
- Fred Carpenter
- Matthew Lacey
- Michael Mann
- Judith Stringham Mohnach
- Michael Murphy
- Richard Myers
- Betty Clancy Radens
- Robert Sennish
- Liza Stelle
- Ernie Waivada
- Erin Wright

Yes, I want to help Clearwater in its efforts to reclaim and protect the Hudson River.

- | | | | |
|---|---------|--------------------------------------|-------|
| <input type="checkbox"/> BENEFACTOR | \$5,000 | <input type="checkbox"/> CONTRIBUTOR | \$100 |
| <input type="checkbox"/> SAILING MASTER | \$1,000 | <input type="checkbox"/> FAMILY | \$50 |
| <input type="checkbox"/> MARINER | \$500 | <input type="checkbox"/> INDIVIDUAL | \$35 |
| <input type="checkbox"/> SPONSOR | \$200 | <input type="checkbox"/> LIM. INCOME | \$15 |

- I am enclosing a check or money order payable to Clearwater.
- Please charge my Visa MC Discover AmEx

ACCT NO _____ EXP _____

SIGNATURE _____

(Note: You can also join Clearwater online at www.clearwater.org)

NAME _____

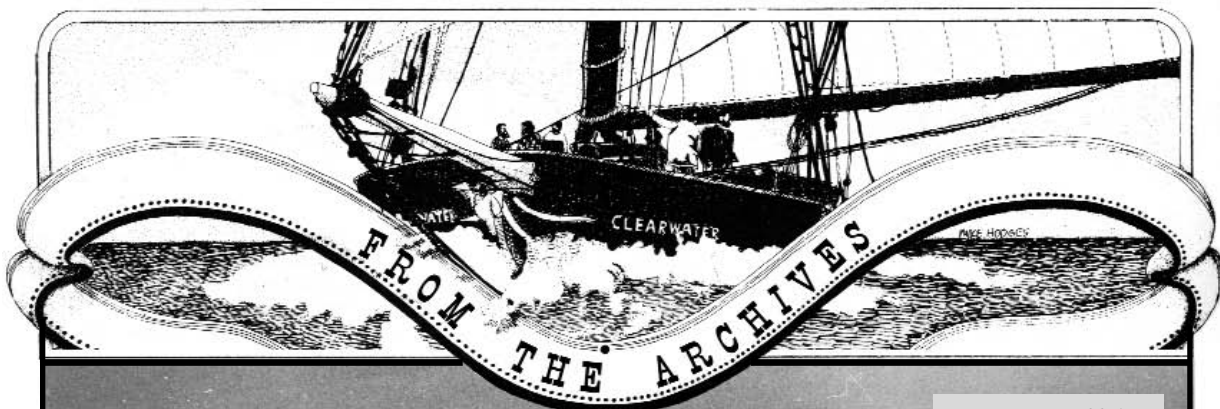
ADDRESS _____

CITY/STATE _____ ZIP _____

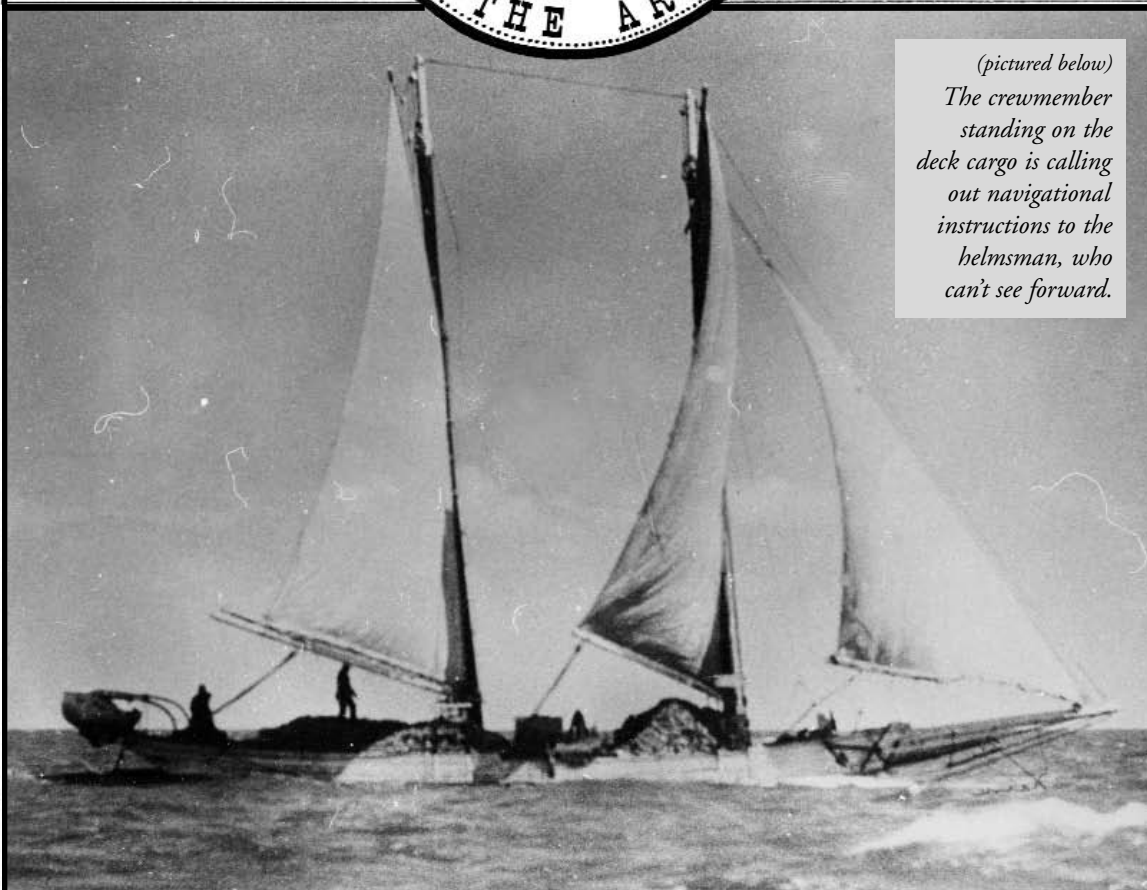
E-MAIL _____

PHONE _____

All membership contributions are tax-deductible.



*(pictured below)
The crewmember
standing on the
deck cargo is calling
out navigational
instructions to the
helmsman, who
can't see forward.*



The Stephen Taber

Adorning the Executive Director's office wall for years has been this photo of the Hudson River schooner *Stephen Taber*. Built in 1871 in Glen Cove, L.I., the *Stephen Taber* is the oldest documented merchant sailing vessel in service in the United States. Pulp wood, bricks, produce and oysters are only a fraction of the goods that have been piled on her decks making their way from the North Shore to New York City and up into the Hudson. She landed in Maine in 1920 and there she's stayed. Her cargo shifted from goods to folks since the Barnes family came to own her in 1979. Rebuilt in 1981, the *Stephen Taber* now runs 6-day sailing adventures out of Rockland, Maine with Captain Noah Barnes. For more information, see their website: www.stephentaber.com.



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