



Atlantic International Chapter NEWSLETTER

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JULY 2001

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President's Message

Means of communication within the Chapter continue to improve with the advent of email and our website. For a spread-out Chapter like ours, quick and easy communication is a lifesaver. Of course, communication doesn't just happen, even with the electronic resources available to us. When it was determined that early registration was necessary to commit rooms for our fall meeting in New Hampshire, Scott Decker worked with Scott Covington and Shawn Good to get the word out via Newsletter and Website. I talked to Scott Decker a couple of weeks back, and he indicated that registrations were coming in at a good clip. (For anyone who's been out in the field for the last several months, registration has been extended to the end of July.) A special feature of this fall's meeting is that Southern New England Chapter members will also be attending and participating. We look forward to this joint meeting, and a tip of the hat to them for snaring the Quality Chapter award this year. If you look back to last July's Newsletter, you will see that joint meetings were one of Past-President Brandon Kulik's goals; to "pursu[e] the goal of broadening the technical agenda and demographics of meetings by exploring opportunities to meet jointly with other professional societies with parallel interests...". Brandon contributed significantly to that goal by organizing a fisheries session at the Wildlife Society's Portland, Maine, meeting last spring. It's a worthy goal that we will continue to pursue with our joint meeting at this year's meeting in New Hampshire.

AFS President Carl Burger called a couple weeks ago for some Chapter accomplishments that he could present at the national meeting. I'm pleased to say that I was able to list several: the new statistics column that we're initiating in our newsletter; our report library to keep members informed of publications available within the Chapter area; and I didn't even have to tell him about our website, as he had already looked at it and commented that it was well laid-out and professionally done.

It sounds like the September meeting is coming together nicely. Scott Decker has arrangements under control; Norm Dube has a good number of papers committed (although, at last communication, there were a few openings); and the raffle committee (Rafcomm?) has solicited lots of goodies. Looking forward to seeing you there.

Forrest Bonney

Don't let the registration deadline slip by — there's still time to register for the 2001 meeting. This is a rare opportunity to share information and learn about current research, not only with AIC members, but also with our Southern New England Counterparts.

FINAL CALL FOR PAPERS

“2001: A Fishing Odyssey” 27th Annual Meeting of the Atlantic International Chapter September 23-25 – Lake Winnepesaukee!

You are invited to submit abstracts for review on any topic. Send abstract, title, or notice of interest to:

Norm Dube

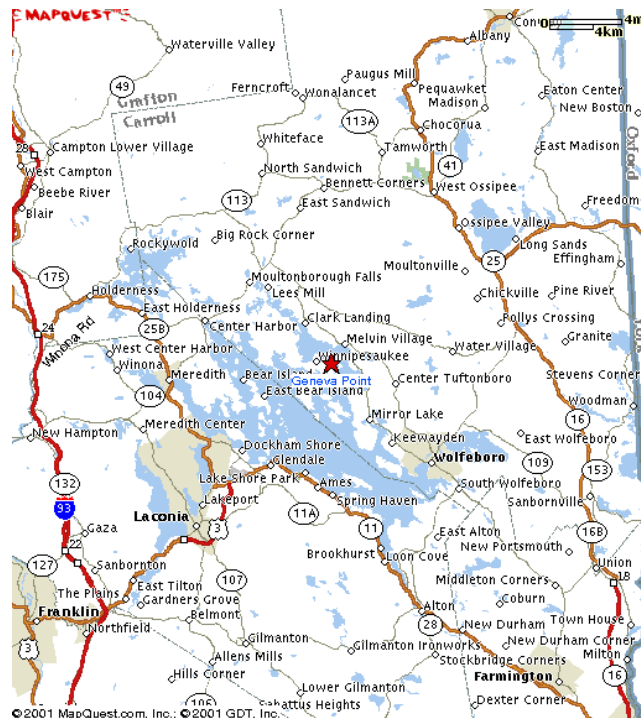
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FORMAT: Paper, Poster, Video, or Computer Demonstration

Deadline for final call is July 31, 2001

AIC 2001 LODGING INFORMATION

This years meeting will be held at the Geneva Point Center on the shores of New Hampshire's largest lake, 44,000 acre Lake Winnepesaukee. The “Big Lake” offers plenty of fishing opportunities so bring your gear! The salmon and smallmouths should be cooperative! Geneva Point, located in central NH in the town of Moultonborough is a non-profit conference center and camp that serves non-profit, educational, and religious groups. Located on 200 acres of shorefront property, Geneva Point offers a variety of accommodations as listed below as well as a new state-of-the-art meeting room. **The conference center needs reservation confirmation absolutely no later than July 31!** To learn more about Geneva Point, check out their website at www.genevapoint.org. For more information on the meeting contact **Scott Decker**, New Hampshire Fish and Game, 603-271-2744, sdecker@wildlife.state.nh.us.



Atlantic International Chapter of the American Fisheries Society

27th Annual Meeting - September 23 – 25, 2001

Housing Descriptions and Rates for Meeting

All Rates include housing for 2 nights, all meals starting with dinner on Sunday, ending with lunch Tuesday
(Canadian members please make payment in U.S. funds)

Deluxe Lodge

Each of 20 motel style units has heat, carpeting, bathroom with shower.

Single: **\$190.00** Double: **\$158.00**

Deluxe Cabins

Each of 12 units has heat, carpeting, bathroom with shower, private entrance.

Single: **\$182.00** Double: **\$150.00**

Cabins

Each of 8 units has heat, bathroom with shower, private entrance, 2 twin beds and 1 built-in double bunk.

Single: **\$164.00** Double: **\$130.00** Multiple: **\$120.00**

Inn (No Heat, Bath Down Hall)

Each of 12 rooms have carpeting and use a common men's or women's bath located on the second floor

Single: **\$118.00** Double: **\$96.00**

Commuters: **\$48.00 includes meals**

Please make check payable to: Geneva Point Center and mail with registration form to: Geneva Point Center, HC 62, Box 469, Center Harbor NH 03226, (603) 253-4366

Room Pre-registration Form

Please print legible

Name: _____ Arrival: September 23, 2001 Dinner
Departure: September 25, After Lunch

Address: _____ City, State, Zip: _____

e-mail Address: _____ @ _____ Roommate: YES NO

Housing: First Choice _____ Roommates Name: _____

Second Choice _____ Deposit Required with Registration Form: With Housing **\$100.00**

Commuter: YES NO Commuters **\$48.00**

Credit Card Information: Type of Card: Visa MasterCard Expiration Date: _____

Card Number: _____ Billing Zip Code: _____

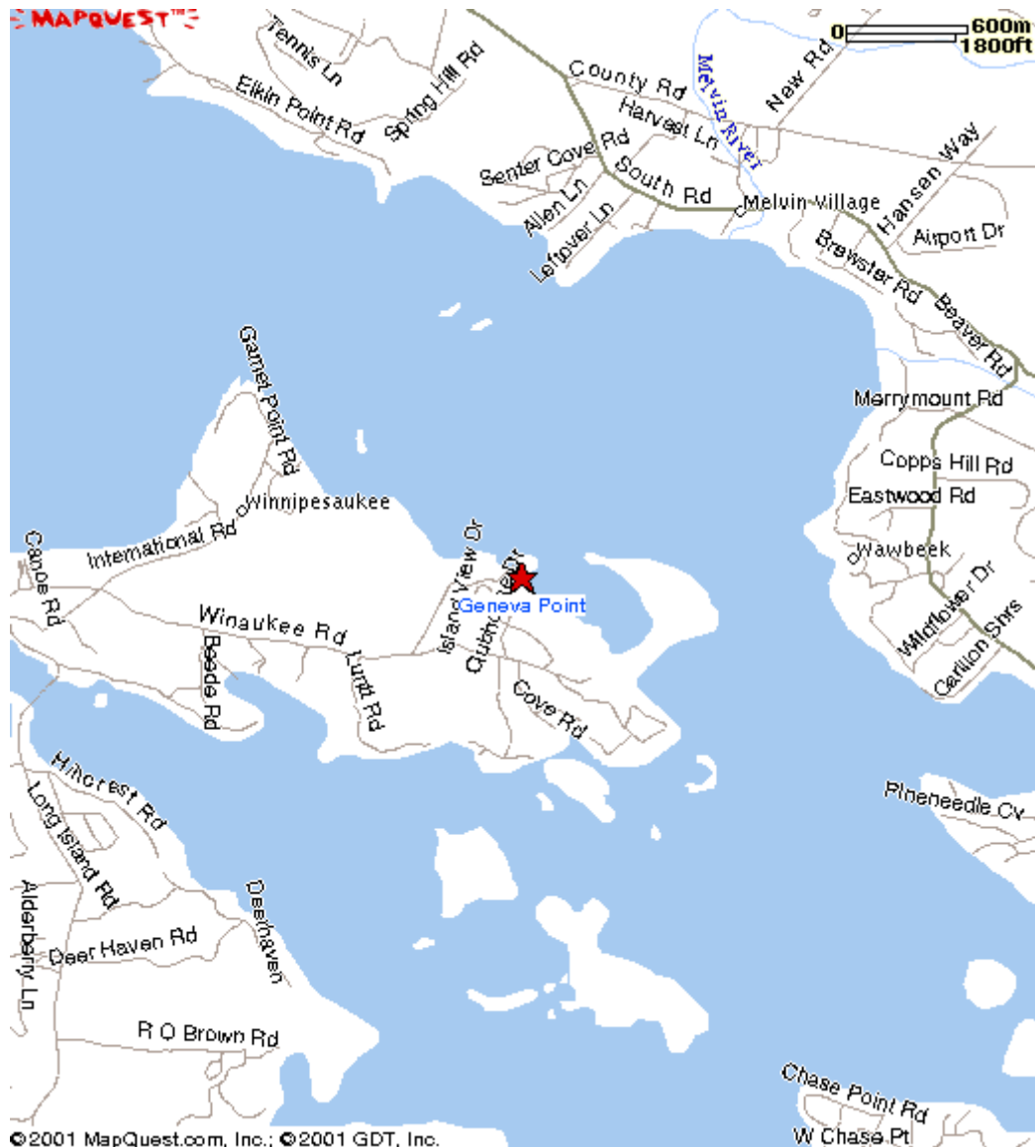
Signature of Card Holder: _____ Amount of deposit being put on credit card \$ _____

Reservation Deadline July 31, 2001

www.genevapoint.org

e-mail: geneva@genevapoint.org

Directions to Geneva Point Center



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From the North and West:

Get on Interstate 93. Take exit 24 and head east on Routes 25 and 25B to Center Harbor. Stay on 25 a few more miles and turn right onto Moultonborough Neck Road. Follow signs to Geneva Point Center (about 6 miles).

From the South:

Take Interstate 93 to exit 23. Head east on Route 104 to Route 3. Take Route 3 into Meredith. Turn right onto Route 25 to Center Harbor. Stay on 25 a few more miles and turn right onto Moultonborough Neck Road. Follow signs to Geneva Point Center (about 6 miles).

From the East:

Pick up Route 25 or Route 16 in Maine and head to West Ossipee, NH. Head west on Route 25 to Moultonborough. Take a left onto Moultonborough Neck Road. Follow signs to Geneva Point Center (about 6 miles).

Atlantic International Chapter

27th Annual Meeting, September 23-25, 2001

TENTATIVE AGENDA

SUNDAY, September 23

- 3:00 – 7:00 **Registration**
- 7:00 – 9:00 **Informal Session (and Mixer) hosted by Joan Trial**
- **Juniper Field Computer Demonstration** – Gabe Gries and Gregg Horton
- **Flatbed PIT tag Antenna Demonstration** – Todd DeBreuil

MONDAY, September 24

- 7:30 – 10:00 **Registration**
- 7:00 – 8:00 **Breakfast**
- 8:10 – 8:30 **Introduction and Welcome**
- Session I: Applications of PIT Tags in Fisheries Management and Research - Chair: Gabe Gries, Conte Anadromous Fish Research Center**
- 8:30 – 8:50 **Growth, survival, and movement of brook trout, *Salvelinus fontinalis*, and brown trout, *Salmo trutta*. Stephanie M. Carlson, University of Massachusetts, Amherst, and Ben Letcher, Conte Anadromous Fish Research Center.**
- 8:50 – 9:10 **Stocking marine-reared adult Atlantic salmon in Eastern Maine: a unique enhancement tool. Tim Sheehan, Northeast Fisheries Science Center, Greg Mackey, Maine Atlantic Salmon Commission, John Kocik, Northeast Fisheries Science Center, Dave Finlay, Atlantic Salmon of Maine, and Lee Sochasky, St. Croix International Waterway Commission.**
- 9:10 – 9:30 **Effects of repeated anesthetizing of juvenile Atlantic salmon with MS-222, clove oil, and Alka-Seltzer. Gabe Gries, Melissa Grader and Ben Letcher, Conte Anadromous Fish Research Center.**
- 9:30 – 9:50 **The use of PIT tags to establish movements of the slimy sculpin (*Cottus cognatus*) in small streams. Michelle Gray, R. Cunjak, and K. Munkittrick. Dept. of Biology, University of New Brunswick.**
- 9:50 – 10:10 **Break**
- 10:10 – 10:30 **Atlantic salmon pre-spawning migratory behavior and spawning distribution in Clearwater Brook. Chris Connell and Rick Cunjak, University of New Brunswick.**
- 10:30 – 10:50 **Estimating growth and survival of a wild Atlantic salmon population in Maine using an individual-based approach. Gregg Horton, University of Massachusetts at Amherst.**
- 10:50 – 11:30 Open slots (2)
- 11:30 – 12:45 **Lunch**
- Session II: Habitat – Chair: Dr. Russell Brown, Northeast Fisheries Science Center**
- 1:00 – 1:20 **Effects of LWD Restoration on Stream Habitats, Macroinvertebrates, and Salmonid Fishes of the**

Green Mountain National Forest, Vermont, USA. Keith Nislow, USFS Northeast Research Station, UMASS-Amherst, C. L. Folt, Dartmouth College, and S. Roy, Green Mountain National Forest.

1:20 – 2:20 Open slots (3)

2:20 – 2:40 **Break**

Session III: New Technologies – Chair: Jon Truebe, Lakeside Engineering, Inc.

2:40 – 3:00 **Virtual Hydraulics: 3-Dimensional Modeling for Better Results, Computational Fluid Dynamics (CFD) for Fish Pass Design and Environmental Hydraulics. John E. Richardson**, Earth Tech.

3:00 – 3:20 **Technological Enhancement of Directed Current Fish Guidance Systems At Hydroelectric Power Plants. Eric Truebe**, Current Solutions, LLC.

3:20 – 3:40 **Utilizing a Fish Transfer Pump as a Means of Fish Passage at a Hydroelectric Facility. D. Jason Seiders**, Normandeau Associates Incorporated.

3:40 – 4:00 Atlantic Salmon Smolt Studies in Maine Rivers – MASC and NMFS (commitment but no official abstract/paper yet!)

4:00 – 4:20 Downstream passage movements of seven resident species via radio telemetry. Steve Shepard (not official title, abstract promised soon!)

4:20 – 5:30 **Poster Presentations**

- **Understanding and Preventing the Spread of Zebra Mussels.** Ron Heun, Normandeau Associates

TUESDAY, September 25

7:00 – 8:00 **Breakfast**

8:00 – 9:30 **Business Meeting**

9:30 – 9:50 **Break**

Session IV: Open Session – Chair: Len Gerardi, Vermont Fish and Wildlife Department

9:50 – 10:10 **An Investigation of Drift of Atlantic Salmon Fry, *Salmo salar*, Immediately After Stocking. Ernie Atkinson** and Greg Mackey, Maine Atlantic Salmon Commission, Gregg Horton, Conte Anadromous Fish Research Center, and Wayne Simmons, Maine Atlantic Salmon Commission.

10:10 – 11:10 Open slots (3)

11:10 – 12:00 **Raffle and Fishing Contest Awards; Wrap-up**



CHAPTER NEWS

Raffle and Door Prize Report

Scott Covington and Gabe Gries

This year's meeting will feature a great selection of raffle items and door prizes. Included in the list (which is still expanding) are:

<u>Company/Agency</u>	<u>Item(s)</u>
Biomark	Custom built 4/5 weight fly rod and shirts and baseball caps
Eagle Claw	6' medium wt spinning rod
Floy Tag	500 FD-94 T-Bar tags and gun
Fly Rod and Reel	1 year subscription
Harvest Master	Shirt and baseball cap
Hook and Hackle	\$20 gift certificate
Hook, Line and Sinker	Fish print
Jake's Spin-a-lure	6 Fly rod – spinning rod lures 6 Spinning rod lures
Northwest Marine	\$200 donation
Orvis	Clearwater 9' 6-wt fly rod/w rod tube, reel, line and backing
Pruett Publishing	3 books: <ul style="list-style-type: none"> ▪ Echoes on rimrock: in pursuit of chukar partridge ▪ Mountain water: the way of the high-country angler ▪ Where salmon come to die: an autumn on Alaska's raincoast
The Virtual Flyshop	Baseball cap
Underwater Sports of NH	Dive light and baseball cap
VT Fish and Wildlife	Framed duck print and stamp
YBC	6 Worden's rooster tails

Reduced Prices

Buck Knives	30% off all knives
Powell Fly Rods	50% off any rod certificate
Sage Rods	40% off rods
Thomas and Thomas Fly Rods	40% off any rod certificate and a baseball cap

Grand Prize

Destron-Fearing	Pit tag reader Model 2001F, 2 antennas, battery charger, cables and 100 PIT tags (\$3500 value)
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Other possibilities include additional fly fishing wares from Baker Fly Reel, Sage, Scott and St. Croix.

We thank the companies and agencies that have donated these items to benefit the AIC raffle.

Maine's Brook Trout Fishery Continues to Improve

Forrest Bonney

Maine Fishery Biologists have completed an intensive seven-year study designed to evaluate the effect of new brook trout regulations imposed on nearly 500 lakes with wild fisheries in 1996. The study was conducted on a sample of 22 brook trout ponds located in Aroostook, Franklin, Oxford, Piscataquis, and Somerset counties. The intent of the new regulations was twofold; to create standardized regulations to simplify the law book; and to increase the size and age structure of wild brook trout in our lakes. Because older-age fish are genetically important and contribute to quality fisheries due to their size, one of the most important goals of the new regulations was to protect these fish, which make up a relatively small percent of the population. During the study, biologists weighed, measured, and aged a total of 4,456 brook trout. Results are as follows:

- ➔ For all waters sampled, older-age brook trout (age III+ and older) accounted for 22% of those sampled from 1994-95 (before the new regulations went into effect). The proportion of older-age fish increased dramatically to 35% by 1999-2000.
- ➔ When waters were grouped by regulation severity*, the proportion of older-age fish in those with low-to-moderate regulations was 22%, but jumped to 48% in those with severe regulations. This suggests that very restrictive regulations are necessary to protect large numbers of older-age fish and to create quality fisheries.
- ➔ Anglers had faster fishing in waters with more restrictive regulations, though of course they were not allowed to keep as many trout.
- ➔ The oldest brook trout sampled were age VI+. Only 5 were sampled; 4 were taken in lakes with high regulatory severity.
- ➔ Only 42% of age I+ trout were sexually mature; the percentage increased to 65 at age II+, 90 at age III+, and 98 at age IV+. When we consider that age III+ trout average 12 inches in length, the need for high length limits to protect them to spawning size becomes obvious.

This study confirms that restrictive regulations have helped restore wild brook trout fisheries in Maine's lakes and ponds. Averages aside, however, growth rates of

brook trout in Maine lakes are highly variable, necessitating a variety of regulations to best manage those waters. We will continue to monitor these fisheries in the future to assure that brook trout growth rates and population structures remain biologically healthy. We will also look for opportunities to improve size quality in selected waters.

*Examples of regulation restrictions ranged from low to severe. A low-severity regulation allowed anglers a 5-fish limit, with a 6-inch minimum length and no gear restrictions. A moderate-severity regulation allowed a 2-fish limit, with an 8-inch minimum length and an artificial-lures-only restriction. A high-severity regulation allowed a 2-fish limit, with a 10-inch minimum length (only 1 greater than 12 inches) and an artificial-lures-only restriction. A severe regulation allowed a 2-fish limit, with a 12-inch minimum length (only 1 greater than 14 inches) and a fly-fishing-only restriction.

National Chapter News

Committee Launches Web Portal for Federal Grants

Jason Peckenpaugh

After years of work, a key government committee has developed a Web portal that provides online access to federal grant information. The Federal Commons Web portal will provide "one-stop shopping" for the entire federal grant application process, said officials with the Inter-Agency Electronic Grants Committee, which launched the site in December. The site will eventually allow applicants to submit and track their grant applications online.

At present, users can search a General Services Administration catalog of federal grant programs on the site. "This is a first step," said Eleni Martin, a spokeswoman for the General Services Administration. "[The committee] envisions that users will be able to submit all [grant] applications online in the future." The Inter-Agency Electronic Grants Committee is made up of members from 23 grant-making agencies who are working to streamline the grant application process. Applicants for federal grants have long bemoaned the different grant systems and applications used across the government. Agencies award

The Federal Commons Web portal will provide "one-stop shopping" for the entire federal grant application process

roughly \$300 billion in federal grants to 30,000 organizations each year.

The committee itself is the byproduct of an earlier Department of Transportation pilot project to create a government-wide grants site, the Electronic Grants Project. Lauded by Vice President Al Gore's National Partnership for Reinventing Government, the Electronic Grants Project died when Congress refused to fund it in 1999. "Eventually, [the Electronic Grants Project] ran out of money," said Brad Stanford, co-chair of the committee. "But in the meantime, everybody got interested in working together to do electronic grants and formed the committee." Full story: <http://www.govexec.com/dailyfed/0301/030901p1.htm>

This is the website address for the Federal Commons at which (eventually) grant information of all kinds will be made available to the community. You may wish to visit it now, and bookmark it for frequent visits! <http://www.cfda.gov/federalcommons/>

AFS Announcements

*Hannelore Quigley
Marketing Coordinator
American Fisheries Society
5410 Grosvenor Lane
Bethesda, MD 20814
Phone (301) 897-8616, Ext. 214
Fax (301) 897-8096*

Continuing Education Courses: The AFS Continuing Education Classes are being given on Sunday, August 19th, 2001 from 8 AM to 5PM at the Crowne Plaza Pheonix during the AFS 131st Annual Meeting. Don't miss this opportunity to attend! Please note the River Morphology class is 1.5 days and is on Sat. Aug. 18th. Registration is available through the annual meeting registration form in FISHERIES magazine, or on the web at <http://www.fisheries.org/annual2001/ce.htm>.

What's new at AFS? Read all about it at <http://www.fisheries.org/WhatsNew.shtml>

AFS T-Shirts on sale now!

These 100% cotton T-shirts with the AFS logo on the front pocket, include a colorful silk-screen design by re-known artist H. Steven Logsdon on the back, with 7 marine and freshwater species. Color of shirt: Off-white. Available in S, M, L and XL (specify size with order).

The cost for this shirt is:

AFS Members: \$15.00, includes shipping and handling
 All Others: \$20.00, includes shipping and handling

To order, call the American Fisheries Society at (301) 897-8616, ext. 200, or Fax your information to (301) 897-8096, and ask for Stock #699.08. For mail orders, please send a check to:

AFS T-Shirts
 American Fisheries Society
 5410 Grosvenor Lane, Suite 110
 Bethesda, MD 20814-2199

AFS Online Bookstore

The AFS Online Bookstore is a valuable resource for all fisheries and aquaculture related books: <http://www.fisheries.org/Publications.shtml> AFS Certification: <http://www.fisheries.org/Certification.shtml> Public Policy, including AFS Policy Statements: <http://www.fisheries.org/PublicPolicy.shtml> One-stop shopping for your next dream job! Check it out at www.fisheries.org/jobs.html.

Renew your membership online at <http://www.fisheries.org/Membership.shtml>

New Releases from AFS:

Island in the Stream:
 Oceanography and Fisheries of the Charleston Bump
 George R. Sedberry, editor
 244 pages
 Published by American Fisheries Society
 Publication date: April 2001
 Stock #540.26; ISBN 1-888569-23-9
 List Price: \$65.00
 Member Price: \$45.00

This first comprehensive volume on the Charleston Bump, an important geological feature in the Atlantic Ocean, brings together important new multidisciplinary research from physical scientists, fishery biologists, managers, and economists--professionals who do not often work together on fishery management problems.

Located on the Blake Plateau 100 miles southeast of Charleston, SC, the Charleston Bump deflects the Gulf Stream offshore, and may have a significant oceanographic effect on primary productivity, dispersal and retention of larval organisms, cross-shelf transport of nutrients and fauna, and life history of fishes. The interaction of the Charleston Bump and the Gulf Stream may play a role in the recruitment of large pelagic fishes such as swordfish and other billfishes to nursery areas in the vicin-

life history stages of swordfishes and other species in the Charleston Bump vicinity and will reexamine the oceanography and fisheries in light of recent developments.

Highlights include:

- * A review of the Gulf Stream meanders and their influence on productivity and distribution of early life stages of important pelagic fishery species.
- * Descriptions of the influence of complex bottom topography on pelagic fisheries operating on one of the most important pelagic fishing grounds in the southeastern United States.
- * Exploration of the linkage of ecology and recruitment of important highly migratory species to oceanographic features in the Atlantic off the southeast United States. A first description of geological features important to deep demersal reef fisheries of the southeastern United States.
- * Examination of fishery problems in similar island-like habitats off the southeastern United States, the eastern Atlantic, and the tropical Pacific.



Loose Change

Documentary-makers like to stick with sharks. Generally, their procedure is to scatter bleeding fish pieces around their boat, so as to infest the waters. I would estimate that the primary food source of sharks today is bleeding fish pieces scattered by people making documentaries. Once the sharks arrive, they are generally fairly listless. The general shark attitude seems to be: "Oh God, another documentary." So the divers have to somehow goad them into attacking, under the guise of Scientific Research. "We know very little about the effect of electricity on sharks," the narrator will say, in a deeply scientific voice. "That is why Todd is going to jab this Great White in the testicles with a cattle prod." The divers keep this kind of thing up until the shark finally gets irritated and snaps at them, and then they act as though this was a totally unexpected and very dangerous development, although clearly it is what they wanted all along. -- Dave Barry

AIC Bibliography

Overall coordinator

Brian Smith

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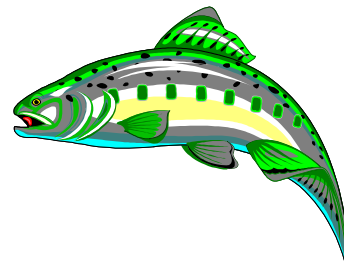
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Atlantic International Chapter Newsletter

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