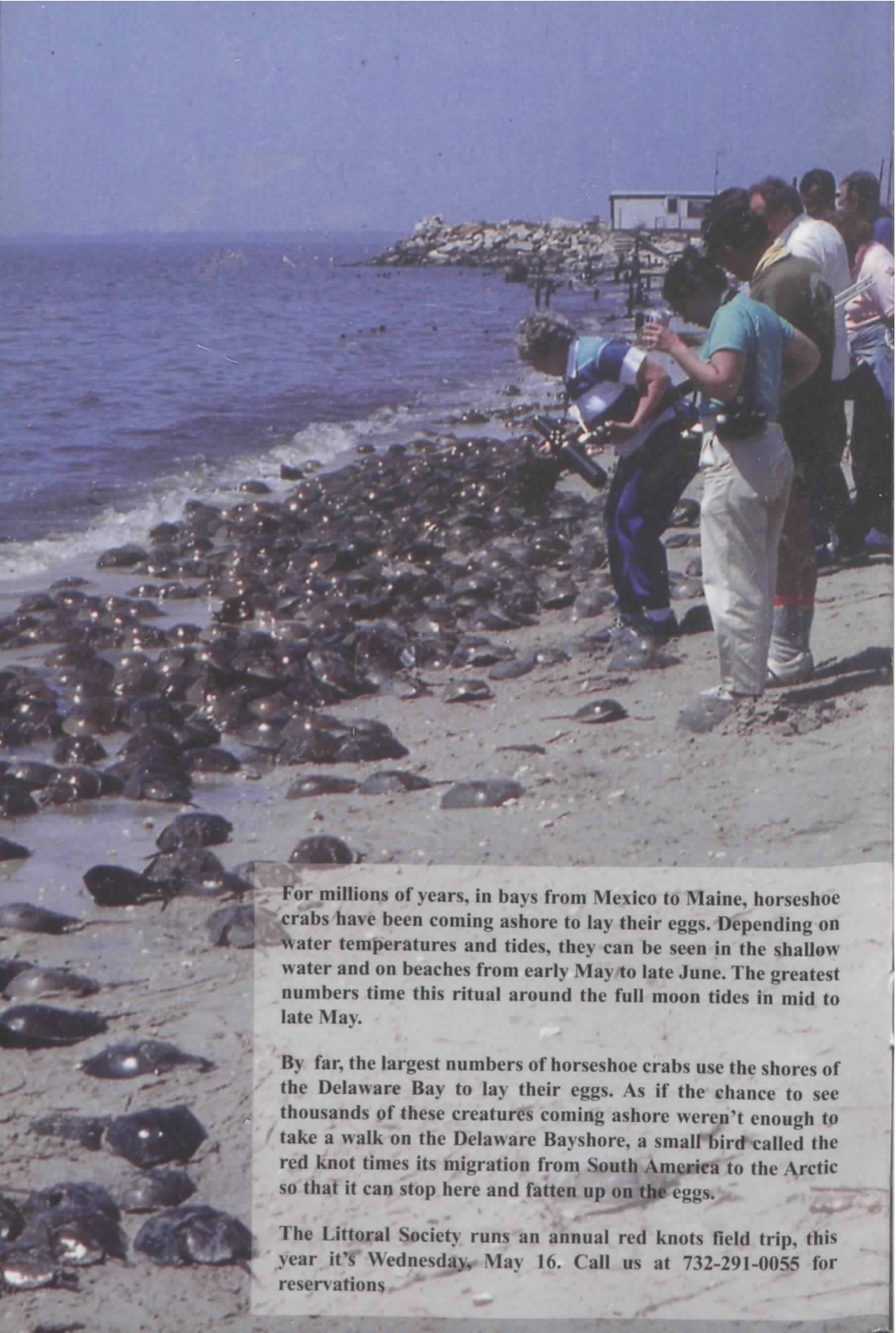




underwater naturalist

Vol. 25, No. 4



For millions of years, in bays from Mexico to Maine, horseshoe crabs have been coming ashore to lay their eggs. Depending on water temperatures and tides, they can be seen in the shallow water and on beaches from early May to late June. The greatest numbers time this ritual around the full moon tides in mid to late May.

By far, the largest numbers of horseshoe crabs use the shores of the Delaware Bay to lay their eggs. As if the chance to see thousands of these creatures coming ashore weren't enough to take a walk on the Delaware Bayshore, a small bird called the red knot times its migration from South America to the Arctic so that it can stop here and fatten up on the eggs.

The Littoral Society runs an annual red knots field trip, this year it's Wednesday, May 16. Call us at 732-291-0055 for reservations

**Bulletin of the
American
Littoral Society**

Volume 25, Number 4

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Cover Photography
from *Ecological Research and
Development, Inc. (ERDG), Milton, DE*

Horseshoe crab eggs toward the final stage of development (20-30 days). The hatching larvae, called trilobites, settle in shallow waters and spend their first two years on the intertidal flats. The original photograph was taken many years ago through a microscope by an unknown Japanese researcher. Sue Symes, of Technographics, Inc., Wilmington, DE, reworked the photograph with computer software to create the image you now see.

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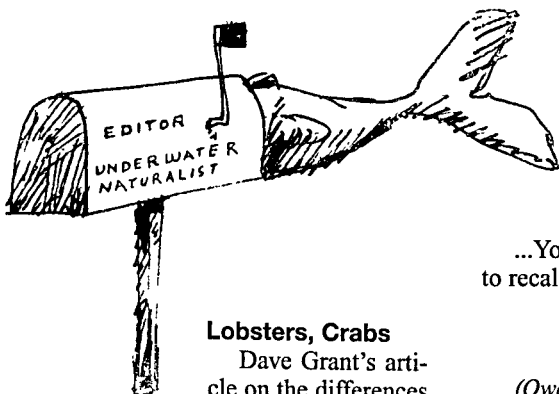
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Note: Past volumes of Underwater Naturalist and individual articles are available on microfiche from UMI, Ann Arbor, MI 48106.



...Hey, Owen, how could you leave out "Wanderer on my Native Shore," by George Reiger?
Charles Taggart, Babylon, NY

...You're slipping, Mr. Hatteras. I seem to recall a book called "Moby Dick."
Elise Kidder, Monterey, CA

Lobsters, Crabs

Dave Grant's article on the differences and similarities between lobsters and hermit crabs in fish stomachs may have solved a mystery of mine. I was fishing in a back bay behind Ocean City, NJ, a couple of years ago and caught some weakfish whose stomachs I thought were full of baby lobsters. I bet they were hermit crabs.

By the way, many years ago, we used hermit crab tails for bait while fishing for northern kingfish in the surf. They were killers.

Bill Williams, Trainer, PA

Florida Keys Need Help

Thank you for the good story about algae in the Florida Keys. I have dived here for more than 20 years and it's obvious that something is wrong with the ocean balance in Florida. Maybe it's too much stormwater runoff, maybe it's sewage. To tell the truth, I think the Keys have about run out of development room, but more people move in every day. So I guess I'm part of the problem, because I came down here permanently eight years ago to get away from the crowds. Here they come.

Edward Gatley, Big Pine Key, FL

Owen Hatteras's Reading list

...Hatteras goofed when he left off two classic ocean/coastal books, "Log of the Sea of Cortez" and "Voyage of the Beagle."

Inez Dailey, Cleveland, OH

...Carl Safina's "Song for the Blue Ocean"

R.D. McCall, Rocky Mount, NC

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Tales Taggers Tell

by PAM CARLSEN

The Society's fish tag-and-release program is its most successful volunteer effort. The program is open to members only, and then they are asked to buy Society tag kits, 10 tags, data cards, instructions, and an application needle. Thus, each tagger is making a substantial contribution to fisheries science. Since the program was started by Graham Macmillan in 1965, we have distributed more than 530,000 tags. By doing the math, and averaging the cost of kits over the years, this comes out to an astounding contribution of more than \$225,000 from Society members, in addition to their annual dues, and the extra donations many of them make.

The program design is simple: go fishing, catch a fish, put an ALS tag on it, release it, and wait for someone else to catch it. ALS does the record keeping. All tagging data are compiled here, each report is acknowledged, and once a year we transfer all the information to the National Marine Fisheries Service lab at Woods Hole, where it is available to fisheries biologists. In this issue of UNDERWATER NATURALIST, we report on fish with ALS tags that were recaptured during 1999. From now on, we plan to add an extra issue of the magazine each year, devoted to tagging, data, and stories. Even if you don't fish or tag fish yourself, take a minute to read some of the data. Each line represents a member's efforts to work for better inshore habitat and for good fishing. Taggers deserve our thanks.

TAGGERS AS NATURALISTS

Taggers, like all fishermen, spend a lot of time outdoors. Because of their interest in conservation, they are very aware of their surroundings. Capt. Al Anderson wrote about his day in January fishing in the Thames River, CT. "The day was unusually warm. We saw several bald eagles (nest on the east bank of the river), one large mink about 24" in length, one fat happy harbor seal, along with a wide variety of waterfowl." George Horvath wrote about his day in July fishing at Barnegat Inlet, NJ. "Saw seven red foxes including a herd of three en route home, also saw one deer in Manchester and one brown pelican over the ocean." And again in November, he wrote, "Herring were jumping out of the inlet at dusk today. The red foxes look much bigger now with

Pam Carlsen is the director of the ALS fish tagging program and has worked at ALS since 1985. She likes to fish and loves to hear fish stories.

their winter coats." Ken Hollins of Seaside Park, NJ, carries a camera and takes pictures which he sends. This red fox was in Island Beach State Park, NJ.



*Red fox at Island Beach State Park, NJ.
Photo by Ken Hollins.*



Bob Kyker of Norwalk, CT, Fred Stunkel of Stamford, CT, Vicki Wojewodzki of ALS, Dorothy Obropta of Metuchen, NJ, Ken Dibblee of Trenton, NJ, Pam Carlsen of ALS, and Dave Miklos of Coopersburg, PA, get together for Taggers' Day at Sandy Hook.

TAGGERS' DAY A SUCCESS

Nov. 4, 2000, was Taggers' Day at ALS Building 18. About fifteen taggers showed up to swap stories and have lunch. Some came from the beach, others were here to "look the place over," while still others were going to fish on the way out. Bob Kyker, from Connecticut, brought his daughter's award-winning science project, "Striped Bass, Tag, Release and Return...Why People Tag Fish," to show everyone. Pam Carlsen and Vicki Wojewodzki served lunch and Dery Bennett took notes on good fishing tips.

NOTEWORTHY

NJ Division of Marine Fisheries is looking for striped bass heads from fish 40 lbs. or over. They need the otolith, which is behind the brain, to age the fish accurately. They would also like scales, length, and weight of the fish. Contact Tom Baum in NJ at 609-748-2020 for pick-up.

Follow-up on UN Vol. 25#2. In this issue, I reported using tag data to testify against the proposed leasing of ocean floor for private sand mining. On June 29, 2000, then Interior Secretary Bruce Babbitt denied the lease.

SOUNDFISHING.COM ran a great article "Hooked on Tagging" by our tagger Bob Kyker of Norwalk, CT, on 11-7-00. Take a look at that website.

Commendation to our Postal Service -- We received a tag return "Littoral Society, Address Unknown, Highlands, NJ 07732. No matter how returns are addressed, if they make it to Highlands, NJ, we get them. (Tagging receives all the lumpy envelopes.)

Quote of the day - "When you lose all your tackle it's like losing your wallet."
Myron Willey

FISH STORIES

Linwood Gordon Jr. of Virginia Beach fishes and tags red drum in his own way.

He calls it "Florida Style" and writes, "These red drum are being caught push poling onto the flats and sight casting in one to two feet of water." In June, he conducted his own 90 minute study of the life of a puppy drum in the marsh environment. He writes, "This fish returned directly to his school and was feeding 15 minutes of being caught, tagged, and released. I actually saw his head and tail in six to eight inches of water, as he pushed something (a crab?) against the grass edge and ate it."

Edward Smith of Manchester, MA, called on this cell phone from his lobster boat with his diesel running as he headed out to pick up his pots. When he lifted on 10/20/99, he found our 21" tagged striped bass in a pot outside of Gloucester Harbor, MA. This fish was tagged 4/30/99, offshore, Hull, MA, by Al Alosso, Somerville, MA.

A 13" winter flounder tagged by a student of the NJ Marine Sciences Consortium, 3/31/00 in Sandy Hook Bay, NJ, was recaptured 6/10/00 in a commercial otter trawl, offshore of Manasquan Inlet, NJ. The tag was returned by Chris Petruccelli who wrote, "I work aboard commercial vessels as a fisheries observer from Pt. Pleasant to Cape May and would like an assortment of tags for the frequent striped bass and small flounder which I often release alive." He has become an ALS member.

DOUBLE HEADERS

Two striped bass tagged by Dean Hoxsie in Charlestown Pond, RI, in June and July of 1999, were recaptured in the same place in October by Jack Elison. He wrote, "They were caught on two consecutive casts

within ten minutes. In forty years of striper fishing, I have caught three tagged bass prior to these."

Two tagged fish were caught on the same rig by Paul DiDomenico. He wrote, "On Monday, Aug. 9, 1999, while fishing at South Wellfleet, MA, I was using my standard two-hook bottom rig and I caught two striped bass at the same time. Each fish had a tag, one was yours and the other was from CCA of Maine. That is the first time that has happened to me or anyone else I know who fishes."

Two members of the same family caught our tagged bass on the same day at the same place. Son Myung Kim wrote, "I was fishing with my wife, brother, and sister-in-law in front of the Showboat Casino in Atlantic City, NJ on 6/8/00. My sister-in-law and I each caught one of your



Taggers Linwood Gordon Jr. and his son Woody show off a channel bass (red drum).

tagged fish." Son's fish, which was 29" - 8lbs., was tagged by Greg O'Driscoll, 4/19/00 at Penns Grove, NJ, in the Delaware River, 29". His sister-in-law's fish, which was 30" - 9 lbs. 4 oz. was tagged by David Mann, 6/3/99 at Stony Brook, NY, 25" - 8lbs.

Two of Capt. Mark Simmons fish, tagged at Barnegat Light, NJ, were recaptured by Richard Lehr in the Rockaways, NY, 10 days apart. One striped bass was tagged 11/16/99, 24" was recaptured 7/1/00, 27"; the other was tagged 7/23/98, 22" was recaptured 7/10/00, 29"-11.4lbs.

Husband and wife team, Vicky and Walter Kowalski, fishing in the Hackensack River, NJ, recaptured two of our striped bass tagged in South Jersey. Vicky's bass, caught 6/29/00, 27" - 10lbs. was tagged by Gary Ottavio in the Cape May rips on 11/12/98, 23" - 6lbs. Walter's bass was caught 3/8/00, 25" - 8lbs. was tagged by Rodger Leeds at Ocean City on 4/22/97, 17".

Two of Terry Marburger's striped bass tagged in 1996 were recaptured on the Connecticut shore. On 2/2/96, Terry tagged a 13 1/4" - 1lb. 8oz. fish at the



Terry Marburger, Commack, NY, with a keeper.

Two longtime striped bass returns were sent in by the same recapturer, Peter Miller of Norwalk, CT. The first was tagged 11/3/94 by George Cardel at Eatons Neck, NY, 27" and was caught 7/12/99 in Stamford Harbor, CT, 40"-28lbs. The second was tagged 2/14/95 by Robert Nystrom in the Housatonic River, Devon, CT, 22" and was caught in Wilson Cove, Norwalk, CT, on 7/28/00, 36".

power plant at Northport, NY. It was recaptured by Ray Franko, 9/9/00, at Russian Beach, Stratford, CT, 24". Terry's second bass was tagged at Shinnecock Inlet, NY, on 7/21/96, 24 1/4" - 5lbs.10 oz. It was recaptured by Capt. Dave Lawrence at "The Race", L.I. Sound, on 5/28/00, 33" - 18lbs.

Two fluke tagged in coastal New York and New Jersey are recaptured one day

apart in Rhode Island. On 10/20/98, Bill Filce tagged a 16 1/2" fish at Manasquan, NJ. This fluke was recaptured by A. DiBiasio on 7/29/00 at Newport, RI, 20". On 5/9/99, Edward Feret tagged a 13" fish at Freeport, L.I., NY. This fluke was recaptured by Frank Bassi on 7/30/00, 18" 2 1/2 lbs. at Beavertail Pt on 11/12/98, 23" - 6lbs. Two fluke tagged in coastal New York and New Jersey are recaptured one day apart in Rhode Island. On 10/20/98, Bill Filce tagged a 16 1/2" fish at Manasquan, NJ. This fluke was recaptured by A. DiBiasio on 7/29/00 at Newport, RI, 20". On 5/9/99, Edward Feret tagged a 13" fish at Freeport, L.I., NY. This fluke was recaptured by Frank Bassi on 7/30/00 at Beavertail Pt., Jamestown, RI, 18" -- 2 1/2lbs.

BLUEFISH

Eddie Wilton from the east coast of Florida wrote, "I live in S. Florida and we get our runs of bluefish from the smaller choppers to the monster blues. I have noticed, in recent years, almost a resident population of bluefish staying well past their departure time frame. I was wondering if these massive schools, in fact, come from my hometown of Montauk, NY, and return on a yearly basis. If you are interested in bluefish tagging in S. Florida, I would like to participate in your program."

It is believed by scientists that there are two distinct populations of bluefish. One that ranges from S. Florida to North Carolina and the other from North Carolina to Cape Cod, MA. We invited Mr. Wilton to join. We are interested.

Two of George Horvath's bluefish returns tagged at Barnegat Inlet, NJ, seem to demonstrate the northern population migration. George tagged a 14"- 1 lb. fish on 8/18/99. It was recaptured 4/29/00 at Oregon Inlet, NC, by John Snider. On 8/8/00, he tagged an 11" - 12 oz. blue, which was recaptured by John Stone fishing at Ft. Macon, Atlantic Beach, NC, on 10/31/00.

WISH I HAD BEEN THERE

Tagger Joseph Casey wrote about fly-fishing in the Delaware River at Washington's Crossing, PA, in May. "In about 45 min. I caught close to 70 - 80 striped bass fry, fish that were 3 - 9", all were healthy and well marked. Only one looked like a fish or bird had bitten it 1/3 way up its body from the tail."

Stuart Fries wrote about fishing for fluke in June off Brooklyn, NY. "The fluke picture looks good for the future. I could not believe the quantity of fish that were continuously feeding this past Saturday. Two of us caught our limit of keepers. I had only 18 tags with me and these were used up in an hour."

Peter Graeber wrote about the 19" tagged striper of Howard Sweet's he recaptured at Barrington, RI, "This striped bass was in a mixed school of bass and blues up to ten pounds that were blitzing baby silversides at dusk on 7/5/00. As I was in the middle of a raging school of fish, I did not get a tape or a scale on him. He was in 15' of water, within casting distance with a fly rod from the shore." Howard tagged this bass on 5/18/00 in the Warren River, RI.

Blitzes are exciting. John Drew wrote, "Quite an afternoon! A true blitz of bluefish chasing juvenile menhaden onto the shore. We lost some hooks and a couple of plugs, but enjoyed continuous action for 2 1/2 hours." John fishes in upper Narragansett Bay, RI.

UNUSUAL TO SAY THE LEAST

A tag placed in a 14" striped bass, by Tom Lake on 11/29/97 at Bay Ridge, Brooklyn, NY, was found in Clark's Cove, New Bedford, MA, on 6/1/99 by Jean Thibeauter while quahogging (clamming). No fish, just the tag.

A tag placed in a 13" fluke at Sandy Hook, NJ, by Larry Gonnello on 8/29/99 was found in the stomach of a 30 lb. monkfish "attached to a small horseshoe crab." The monkfish was caught by the fishing vessel "Alison Rose," while fish-

ing 30 miles south of Rhode Island on Coxes Ledge.

And we had a note from Gary Haddle, a biostatistical sampler for the Florida Marine Research Institute, "I have never heard of the Littoral Society in Highlands, NJ, probably because I live in Jacksonville, FL. I am the NE Florida port sampler and constantly interview commercial fishermen and take data from their landings. Last September 21, I was sampling at Seafood Shoppe in St. Augustine (a wholesale fish house) and happened to notice a tagged summer flounder about to be filleted for one of the local restaurants. I immediately snatched the fish from the cutter's grasp and examined the tag. The fish was a male, 17" - 1 lb. 6oz. After measuring the fish, it was filleted and sent out for someone's dinner. The fish was part of a 25 lb. box shipped in from Atlantic Seafood Co. of Hampstead, NC. I am not sure where they obtained the fish, but it had not been frozen, so it had to be caught within a week of when I came across it. I know these data are not as good without a location of capture, but out of respect for our

errant flounder, here's your tag back!" This fluke was tagged by John Gibbon off Long Beach, NY, on 9/27/97, 13".

TAGGERS' SURVEY

In the fall of 2000, we sent out surveys to all taggers asking them about their experiences in 1999. 201 were returned. These surveys reported:

10,216 fishing trips taken.

64 took 1 - 24 trips.

59 took 25 - 49 trips.

44 took 50 - 99 trips.

34 took over 100 trips.

Of these numbers, 137 fished from a boat, 52 from the shore and 22 did both.

Striped bass was the fish most tagged, with fluke second and bluefish third. The overall comments concerning the fishing were:

1999 was a very good year for striped bass, though some taggers had a better year than others. Generally it was stated that there were more fish, but fewer big ones.

Fluke and bluefishing was good to average compared to 1998, and weakfishing was better than 1998.

Circle hooks were used by 98 of the taggers. 86 of those stated that there was either no gut hooking or far less. Four felt they had not used them long enough to say and eight saw no difference. Their comments on using circle hooks were "great on stripers and blues," "not so good for fluke." Circle hooks are for bait fishing only and those who troll cannot use them. Many others already remove all barbs from their hooks or lures. Thanks go to all the taggers who sent in their surveys. We have read all the comments and have answered as many as possible. It has given us another view into the fishing lives of our taggers. If you still have your survey and would like to fill it in, we would be happy to have it.



Kevin Kyker about to release a tagged striped bass.



TAGGING REPORT

compiled by PAM CARLSEN

This issue of the UNDERWATER NATURALIST contains the complete recapture record of ALS tag data for 1999. Although all of the returns are valuable, there are some notable longtime returns.

The longest bluefish return for 1999 was William Brett's 22" fish tagged at Provincetown, MA, on 9/15/97. It was recaptured by B. Donaldson at Calvert Cliffs State Park in MD. 7/26/99, 28".

The longest fluke return was one day shy of eight years. Robert Anderson's 11" fish tagged on the south shore of L.I., NY, in Swift Creek on 6/25/91 was recaptured by J. Colosa, Sr. on 6/26/99 at Fire Island

Reef, NY, 26".

The longest striped bass return for 1999 was recaptured 13 days short of nine years. Ron Wellman's 19" fish tagged at Horton's Pt., NY, in L.I. Sound on 11/29/90 was recaptured by R. Brodie in New Haven Harbor, CT, 11/16/99, 35". Eleven other striped bass were tagged in 1994 and recaptured in 1999.

Longtime returns are a credit to the tagger's safe release, the stamina of the fish, and the legibility and holding power of the tag. Thanks to all of our taggers. Keep up the good work. We think you're terrific.

TAGGING RETURNS

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
Atlantic Cod							
19	A Alosso	Offshr., Scituate, MA	07/03/98	B MacKinnon	Offshr., Scituate, MA		01/01/99
20	A Alosso	Offshr., Newburyport, MA	07/01/98	P Brazao	Scituate, MA	21	01/10/99
20	T Stanik	Offshr., Stellwagon Bk., MA	07/03/97	A Alosso	Offshr., Stellwagon Bk, MA		03/21/99
19	A Schweithelm	6 mi. S. Block Island, RI	04/14/98	M Potts	7 mi. S Block Is., RI	24	04/03/99
17	M LeBlanc	Offshr., Tilles Bank, MA	09/03/98	P Haring	Offshr., SE Tilles, MA	19	05/18/99
19	A Alosso	Offshr., Scituate, MA	08/03/97	Unk. Fisherman	Offshr., Scituate, MA	22	07/04/99
19	A Alosso	Offshr., Gloucester, MA	08/16/98	Unk. Fisherman	Offshr., Gloucester, MA	26	07/30/99
15	T Stanik	Offshr., Boston, MA	07/01/97	L Cappellucci Jr.	Offshr., Tilles Bank, MA	21	09/04/99
21	A Alosso Jr.	Offshr., Hull, MA	04/30/99	E Smith	Gloucester, MA	21	10/20/99
Black Grouper							
10	J Wright	Venice, FL	04/25/99	R Buckelew	Venice, FL	10	06/02/99
Black Sea Bass							
7	D Goodwin	Merrick Bay, NY	08/08/99	D Goodwin	Merrick Bay, NY	07	08/21/99
6	D Goodwin	Merrick Bay, NY	08/08/99	G Sullivan	Merrick Bay, NY	08	09/12/99
8	D Goodwin	Merrick Bay, NY	08/21/99	A Fulton III	Freeport, NY	08	09/25/99
Bluefish							
25	A Anderson	Montauk Pt., NY	09/27/98	D Soranno	Bethany Beach, DE		04/28/99
	J Zaffuto	Fire Is. Inlet, NY	05/01/99	E Hornberger	Stone Harbor, NJ		05/08/99
24	B Finke	Norwalk, CT	08/20/98	A O'Neill	Larchmont, NY		06/02/99
19	C Kennedy	I.C.W. Marker #469, NJ	05/04/99	C Parker	2 mi. S East Pt Lt., NJ		06/06/99
15	M Barrett	Princess Bay, NY	06/09/98	V Zingaropoli	New Dorp, NY	17	06/15/99
30	N Fiorillo Jr.	Monmouth Beach, NJ	07/22/98	F Nirschl	Monmouth Beach, NJ	35	06/18/99
18	B Shillingford	Strathmere, NJ	05/28/99	J Dolobacs	Island Beach St. Pk., NJ		06/20/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
32	G Dulka	2 mi. E Rudee Inlet, VA	11/28/98	P Milsky	Eastham, MA	35	07/10/99
22	R Kyker	Westport, CT	06/15/99	E Lanutan	Oyster Bay, NY		07/15/99
27	C Carroll Jr.	Offshr., Mud Buoy, NJ	06/26/99	J Novik	Romer Shoal, NJ		07/24/99
22	W Brett	Provincetown, MA	09/15/97	B Donaldson	Calvert Cliffs St. Pk., MD	28	07/26/99
26	A Anderson	Montauk Pt., NY	11/03/98	B Lizotte	Little Compton, RI		07/28/99
17	C Wilcox III	Moriches Inlet, NY	05/31/99	V Caldwell	Moriches Bay, NY		08/07/99
21	M Strober	East River, NJ	10/03/98	J Lombardi	Manhasset Bay, NY		08/10/99
17	B Finke	Norwalk, CT	07/23/98	R Gibson	City Is., NY		08/10/99
23	C Carroll Jr.	Offshr., Mud Buoy, NJ	09/28/99	G Scally	Offshr., 17 Fathoms, NJ		10/29/99
20	A Schweithelm	Montauk, NY	05/22/99	P Kampfer	Thames R., CT		10/31/99
10	T Stanik	Hatteras Inlet, NC	10/20/99	J Newnam	Wrightsville B Inlet, NC	12	11/20/99

Clearnose Skate

16	D Orrico	Atlantic Highlands, NJ	10/17/96	E Pax	2 mi. off Belford, NJ	24	05/23/99
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Fluke

14	N Fiorillo Jr.	Asbury Pk., NJ	08/30/98	F/V Capt. Cecil	Offshr., Salvo, NC		01/07/99
13	S Klaumenzer	Great Bay, NJ	08/02/97	F/V Cliff & Chris	Offshr., Salvo, NC	18	01/07/99
14	J Gibbons	Pt. Pleasant, NJ	08/21/98	F/V Alex L	Landed-Cape May, NJ		01/08/99
13	R Anderson	Fire Is. Inlet, NY	06/29/96	S Moore	Oregon Inlet, NC	17	01/15/99
23	G Bachert	Sandy Hook Bay, NJ	10/19/98	F/V Daddy's Toy	Offshr., Oregon Inlet, NC	23	01/19/99
19	S Bomersbach	Sandy Hook Bay, NJ	10/14/98	Haag & Sons	Morehead City, NC	19	01/20/99
14	M Frawley Jr.	Shinnecock Bay, NY	07/02/98	F/V Crystal Ann	60-70 mi. E VA Coast		01/22/99
14	P Migliaccio	Long Branch, NJ	07/25/98	F/V Crystal Ann	0-70 mi. E VA Coast		01/22/99
13	G Clusman Jr.	Sandy Hook, NJ	06/10/92	F/V Carolyn Grace	Offshr., Wachapreague In., VA		01/28/99
14	S Carlson	Deal, NJ	06/29/98	F/V Carolyn Grace	Offshr., Wachapreague In., VA		01/28/99
16	S Carlsen	Deal, NJ	10/13/97	F/V Boss Lady	Offshr., Norfolk Canyon, VA	17	01/28/99
13	W Filce	Mantoloking, NJ	07/17/97	F/V Carolyn Grace	Offshr., Wachapreague In., VA		01/28/99
14	B Notine	Coney Is., NY	06/06/98	F/V Jamie Mae	Offshr., Townsend's Inlet, NJ		02/09/99
14	J Gibbons	Pt. Pleasant, NJ	08/21/98	E Hall	Offshr., Chincoteague, VA	20	02/20/99
14	V Galgano	Deal, NJ	07/11/98	L Rose	3 mi. off Assateague, VA	19	03/15/99
14	E Feret	Freeport, NY	05/08/99	R Parthe	Jones Inlet, NY	14	05/08/99
14	L Ruch Jr.	Long Branch, NJ	06/29/97	T Doyle	Sandy Hook Bay, NJ	17	05/15/99
14	D Carpio	Sandy Hook Bay, NJ	10/28/98	T Buban	Sandy Hook Bay, NJ	14	05/16/99
14	J Weber Jr.	Freeport, NY	05/07/99	W Kosmij	Inlet, NY	14	05/18/99
13	C Kennedy	Cape May Inlet, NJ	09/12/98	J Lewis	Tuckerton, NJ	15	05/18/99
14	J Weber Jr.	Great South Bay, NY	10/11/98	B Rosat	Great South Bay, NY	14	05/19/99
16	A D'Amato	L.C.W., N. Wildwood, NJ	04/29/99	H Myers	I.C.W., Wildwood Cr., NJ		05/21/99
13	C Kennedy	I.C.W. #453, NJ	06/23/98	J Godfrey	Wildwood, NJ	16	05/21/99
14	S Klaumenzer	Great Bay, NJ	05/19/99	D Vansciver	Tuckerton, NJ		05/22/99
11	J Gibbons	Atlantic Beach, NY	07/05/98	W Campanelli	Long Beach, NY		05/22/99
11	F Waltzinger III	Elberon, NJ	05/26/98	J Zema	Sandy Hook, NJ	17	05/22/99
15	G Ottavio	Cape May Pt., NJ	11/20/98	M Baritis	Fire Is. Inlet, NY	16	05/22/99
15	J Weber Jr.	Freeport, NY	05/07/99	R McCormick	Freeport, NY		05/27/99
12	W Filce	Mantoloking, NJ	07/17/97	B Angelini	Spring Lake, NJ	14	05/28/99
19	J Gibbons	E. Rockaway Inlet, NY	09/27/98	R Anastasio	Jamaica Bay, NY		05/28/99
14	S Fries	Jamaica Bay, NY	07/01/98	W Lawrence	Fire Is. Lt., NY	16	05/28/99
14	J Gibbons	Far Rockaway Bch., NY	05/15/99	L Romane	Jones Inlet, NY		05/29/99
16	B Millar	Waterford, CT	08/16/98	A Giglio	Montauk Pt., NY	16	05/29/99
13	C Kennedy	Lower DE Bay, NJ	08/09/97	J Gortakowski	Fire Is. Inlet, NY	17	05/30/99
15	W Filce	Sea Girt, NJ	08/09/98	M Stevens	Ris Pk., Bklyn, NY	16	05/30/99
14	A Schweithelm	Montauk Pt., NY	06/05/98	C Cone	Waterford, CT	14	05/31/99
14	C Wilcox III	Moriches Bay, NY	05/26/99	J Lev	Moriches Bay, NY	14	05/31/99
15	D Blue	Manasquan Inlet, NJ	08/02/97	G Bachert	Sandy Hook Bay, NJ	18	06/01/99
14	W Filce	Belmar, NJ	07/17/97	B Boyce	E. Rockaway Inlet, NY	17	06/03/99
15	J Gibbons	Atlantic Beach, NY	05/17/98	B Boyce	E. Rockaway Inlet, NY	17	06/03/99
13	J Weber Jr.	Jones Inlet, NY	05/13/99	C Park	Captree St. Pk., NY	13	06/03/99
13	N Fiorillo Jr.	Sandy Hook Bay, NJ	05/29/99	M Juras	Sandy Hook, NJ	13	06/05/99
13	A D'Amato	Cape May, NJ	08/20/98	K Sydnor	Rockaway, NY	15	06/05/99
15	C Fiorillo	Avon, NJ	05/15/99	C Smith	Asbury Pk., NJ		06/05/99
16	S Carlsen	Shrewsbury R., NJ	07/23/98	J Treola	Port Monmouth, NJ	16	06/07/99
14	S Fries	Ambrose Chan., NY	09/26/98	E Heeber	Great South Bay, NY		06/08/99
14	D Crann	Beach Haven, NJ	08/08/98	E Wittmann	Oceanside, NY	15	06/08/99
11	J Hickey Jr.	Belmar, NJ	06/05/99	M Miranda	Shark R., NJ	11	06/08/99
13	J Weber Jr.	Freeport, NY	05/07/99	J O'Neill	Freeport, NY		06/11/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
12	J Weber Jr.	Freeport, NY	05/28/99	R Rydberg	Freeport, NY	12	06/12/99
12	J Weber Jr.	Freeport, NY	06/05/99	R Rydberg	Freeport, NY	12	06/12/99
15	T Matraxia	Flynn's Knoll, NJ	06/06/99	G Bachert	Flynn's Knoll, NJ	15	06/15/99
22	M Strober	Bay Ridge Flats, NY	07/18/98	J Strohmeier	Bay Ridge flats, NY	26	06/15/99
13	J Weber Jr.	Freeport, NY	06/05/99	F Loasch	Jones Inlet, NY		06/16/99
11	J Weber Jr.	Freeport, NY	06/05/99	L Herbst	S. shore of L.I.		06/16/99
9	S Haimes	Reynold's Chan., NY	05/31/99	F Carofano	Reynold's Chan., NY		06/17/99
15	F Grande	Moriches Bay, NY	06/12/99	M Bullock	Moriches Bay, NY	15	06/19/99
19	M Strober	Coney Is., NY	08/15/98	G Hasebe	Coney Island, NY	20	06/19/99
15	J Weber Jr.	Long Beach, NY	06/05/99	A Frank	E. Rockaway Inlet, NY		06/20/99
13	S Carlsen	Deal, NJ	07/16/98	J Delano	Shinnecock Inlet, NY	15	06/21/99
14	R Romanow	Atlantic Beach, NY	05/28/99	L Mercieca	Jones Inlet, NY		06/21/99
13	A D'Amato	Cape May Inlet, NJ	09/03/98	J Konigsberg	Atlantic Beach Brdg., NY	14	06/25/99
11	R Anderson Jr.	Snake Hill Chan, L.L., NY	06/25/91	J Colosa Sr.	Fire Is. Reef, NY	26	06/26/99
14	S Fries	Sandy Hook, NJ	06/19/99	R Schroeder	Sandy Hook Chan., NJ	14	06/26/99
15	C Kennedy	I.C.W. # 470, NJ	05/26/99	W Boston	Wildwood, NJ		06/27/99
14	A D'Amato	Lower DE Bay	09/02/98	J Henry	Port Norris, NJ	16	06/27/99
14	B Shillingford	Ocean City, NJ	05/30/99	S Brown	Ocean City, NJ	15	06/27/99
15	B Goodman	Jones Inlet, NY	06/06/99	K D'Agostino	SW of Jones Inlet, NY	16	06/27/99
14	S Fries	Sandy Hook, NJ	06/19/99	G Byleckie	Flynn's Knoll, NJ		06/30/99
14	N Fiorillo Jr.	Sandy Hook Bay, NJ	05/29/99	F Nuecifora	Pt. of Sandy Hook, NJ	14	06/30/99
12	J Weber Jr.	Jones Inlet, NY	06/24/99	J Ahlers	Freeport, NY	12	06/30/99
15	J White	Fire Is. Inlet, NY	05/19/98	C Travers	Robert Moses Brdg., NY		07/02/99
11	S Carlsen	Deal, NJ	06/25/99	L Bleiter	Leonardo, NJ	12	07/03/99
14	J White	Robert Moses Brdg., NY	05/27/98	J Mangino Sr.	Robert Moses Causeway, NY	16	07/04/99
13	S Fries	Rockaway Inlet, NY	06/23/99	S Fries	Rockaway Inlet, NY	13	07/05/99
12	J Weber Jr	Jones Inlet, NY	06/24/99	B McIntyre	Jones Inlet, NY	12	07/05/99
10	R Hagie	Sea Girt, NJ	07/26/98	F Forsyth	2 mi. E Deal, NJ		07/05/99
15	T Carlsen	Shark R. Inlet, NJ	07/03/98	R Jazwicki	Shark River Inlet, NJ	15	07/06/99
12	A D'Amato	Lower Delaware Bay, NJ	07/16/98	D Giglio	SW of Jones Inlet, NY	14	07/06/99
14	J Weber Jr.	Jones Inlet, NY	05/13/99	R Lafferty	Fire Is. Inlet, NY	14	07/06/99
14	J Gibbons	E. Rockaway Inlet, NY	05/22/99	R Solencis	Great South Bay, NY	14	07/08/99
14	J Beck	Cape May Pt., NJ	07/02/99	J Beck	Cape May Pt., NJ	14	07/10/99
14	S Carlsen	Deal, NJ	06/24/98	H Koch	Deal, NJ	15	07/10/99
14	R Dykas	Great Bay, NJ	05/02/98	A Penz	Great Bay, NJ	17	07/10/99
15	D Bluc	Deal, NJ	06/05/99	P Conte	Sandy Hook Bay, NJ	16	07/10/99
13	J Gibbons	Atlantic Beach, NY	06/28/98	T Alesi	Fire Is. Inlet, NY	13	07/11/99
27	G Bachert	Flynn's Knoll, NJ	06/14/99	J Finn	Flynn's Knoll, NJ	27	07/11/99
14	J Gibbons	Atlantic Beach, NY	05/24/98	J Delapaz	Long Beach, NY	19	07/11/99
15	D Goodwin	Jones Inlet, NY	07/10/99	P D'Andrea	SW Jones Inlet, NY	15	07/11/99
15	J Weber Jr.	Jones Inlet, NY	06/24/99	F Casaburi	Jones Inlet, NY	15	07/12/99
13	A Metzendorf	Sandy Hook, NJ	05/21/99	K Mueller	Sandy Hook Bay, NJ		07/12/99
14	S Fries	Brighton Beach, NY	06/04/99	A Tsar	Coney Is., NY		07/12/99
13	J Hickey Jr.	Sea Girt, NJ	07/11/99	R Engle	Sea Girt, NJ	13	07/12/99
14	A Schweithelm	Montauk Pt., NY	06/05/98	J Capuano	Shinnecock Bay, NY	19	07/13/99
15	J White	Fire Is. Inlet, NY	05/29/99	V Viola	Monches Bay, NY		07/14/99
14	F Waltzinger III	Spring Lake, NJ	09/30/98	P Sollecito	Moriches Bay, NY	16	07/14/99
14	J Hickey Jr.	Bay Head, NJ	07/07/99	J Leather	Manasquan River, NJ	15	07/15/99
14	J Yamakaitis	Sandy Hook, NJ	07/10/99	D Stern	Sheepshead Bay, NY	14	07/15/99
9	S Pagano	Manasquan R., NJ	05/28/99	A Graciano	Manasquan R., NJ		07/15/99
14	B Goodman	Jones Inlet, NY	08/15/98	D Volker	Atlantic Highlands, NJ		07/15/99
12	J Weber Jr.	Freeport, NY	06/24/99	G Corwin	Pt. Lookout, NY		07/17/99
13	J White	Fire Is., NY	08/01/97	T Brown	Gardiner's Is., NY	18	07/17/99
14	C Kennedy	Cape May Pt., NJ	08/04/98	F Kowalewski	Little Egg Hbr., NJ	17	07/17/99
13	S Carlsen	Sandy Hook, NJ	06/25/99	W Conway Jr.	Sandy Hook, NJ	13	07/17/99
12	S Fries	Ambrose Channel, NY	08/08/98	M Barbosa	Coney Is. Flats, NY	15	07/17/99
14	J Hickey Jr.	Sea Girt, NJ	07/10/99	P Rossi	Sea Girt, NJ		07/18/99
14	W Filce	Ortley Beach, NJ	09/29/98	L Laird	Sea Girt, NJ	16	07/18/99
14	P Migliaccio	Deal, NJ	09/26/98	J Hadenwald	Asbury Pk., NJ	15	07/18/99
15	R Notine	Rockaway Pt., NY	06/05/99	J Mowry	Swinburne Is., NY	16	07/18/99
14	S Fries	Rockaway Inlet, NY	06/23/99	P Augulis	Marine Pkwy. Brdg., NY	17	07/19/99
19	B Shillingford	Ocean City, NJ	05/01/99	B Deebie	Corson's Inlet, NJ	20	07/19/99
13	L Gonnello	Flynn's Knoll, NJ	07/03/99	R Newallis Jr.	Sandy Hook, NJ	13	07/19/99
11	B Notine	Ambrose Chan., NY	07/06/99	M Almas	Manne Pkwy. Brdg., NY	12	07/20/99
14	J Gibbons	Atlantic Beach, NY	05/23/98	A Maltese	Jones Beach, NY	16	07/20/99
11	E Zinke	2 mi E. Manasquan, NJ	06/17/97	Unk. Fisherman	Asbury Pk., NJ	13	07/20/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
13	J Gibbons	Atlantic Beach Brdg., NY	05/29/99	J Segot	Atlantic Beach Brdg., NY	13	07/21/99
14	S Carlsen	Deal, NJ	07/12/98	D Heron	2 mi. E Asbury Pk., NJ	18	07/21/99
13	R Conklin	Norwalk, CT	08/10/97	F/V Dan Mullins	Vineyard Sound, MA	17	07/22/99
12	B Shillingford	Strathmere, NJ	07/06/97	T Lagocki	Little Egg Inlet, NJ	16	07/22/99
13	J Weber Jr.	Jones Inlet, NY	06/24/99	E Czaja	Fire Is. Inlet, NY	13	07/22/99
12	J Weber Jr.	Freeport, NY	06/05/99	M Peters	Jones Inlet, NY	12	07/23/99
11	A Evangelista	Lower Hudson R., NY	05/30/99	J Marks	Ambrose Chan., NY		07/24/99
13	L Ruch Jr.	Long Branch, NJ	06/19/99	I Belen	Sandy Hook Bay, NJ	13	07/24/99
14	C Carroll Jr.	Island Beach St. Pk., NJ	06/19/99	J Dolobacs	Island Beach St. Pk., NJ		07/24/99
15	C Kennedy	I.C.W. Marker #469, NJ	04/29/99	J Phillips	Cape May, NJ	16	07/24/99
11	J White	Robert Moses Brdg., NY	05/27/98	P Cilento	Moriches Bay, NY	16	07/25/99
15	J Weber Jr.	Merrick, NY	05/21/99	K Foley	Merrick Bay, NY	16	07/25/99
12	J Hickey Jr.	Sea Girt, NJ	07/11/99	U Fisherman	Deal, NJ	13	07/26/99
13	W Filce	Manasquan R., NJ	05/31/97	E Magnani	Jones Inlet, NY	17	07/26/99
17	S Carlsen	Deal, NJ	07/09/99	R Heulitt Jr.	Deal, NJ		07/26/99
14	D Blue	Manasquan R., NJ	06/05/99	E Norvilas	Manasquan R., NJ	15	07/27/99
13	R Anderson Jr.	Fire Is. Inlet, NY	07/20/97	F/V Old Mystic	E Sakonnet Pt., RI	19	07/28/99
13	F Vornhold	Island Beach St. Pk., NJ	07/21/96	A Waski	Moriches Bay, NY	21	07/29/99
16	E Feret	Freeport, NY	05/09/99	E Kramer	Jones Inlet, NY		07/29/99
16	C Kennedy	I.C.W. Marker #470, NJ	04/22/99	R Serock	Back Bay, Wildwood, NJ	17	07/30/99
12	J Hickey Jr.	Sea Girt, NJ	07/10/99	P Pieslak	Belmar, NJ	12	07/31/99
15	J Weber Jr.	Jones Beach, NY	07/18/99	D Pierce	Jones Beach, NY	15	08/01/99
14	T Matraxia	Spring Lake, NJ	06/26/99	V Rusch	Manasquan, NJ	14	08/01/99
14	J Hickey Jr.	Sea Girt, NJ	07/11/99	M Rothblatt	Bradley Beach, NJ		08/01/99
12	B Shillingford	Strathmere, NJ	07/16/99	C Polley	I.C.W. #306, NJ		08/02/99
14	A Gano	Fire Is., NY	05/28/98	R Ruffini	Hampton Bays, NY	18	08/02/99
14	T Matraxia	Deal, NJ	07/11/99	T Kounas	Elberon, NJ	15	08/02/99
14	J Hickey Jr.	Belmar, NJ	07/08/99	J Zimmerman	Spring Lake, NJ		08/04/99
15	E Swan Jr.	Robert Moses Brdg., NY	07/25/99	D Goodwin	Fire Is. Inlet, NY	15	08/04/99
12	J Mejia	SUNY, Maritime College, NY	07/19/99	A Motta	City Is., NY		08/05/99
13	S Fries	Rockaway Inlet, NY	07/05/99	D Rozias	Marine Pkwy. Brdg., NY	14	08/05/99
14	B Shillingford	Ocean City, NJ	05/28/99	J Markezin	Corson's Inlet St. Pk., NJ	14	08/06/99
13	F Grande	Moriches Bay, NY	06/26/99	J Vassino	Moriches Bay, NY		08/06/99
14	C Kennedy	I.C.W. Marker #469, NJ	04/29/99	R Sparks	Cape May Hbr., NJ		08/07/99
14	J White	Fire Is. Inlet, NY	06/25/98	D Sapolin	Fire Is. Lt., NY	15	08/07/99
12	S Fries	Rockaway Inlet, NY	07/25/99	B Woodroffe	Jamaica Bay, NY	13	08/10/99
14	B Quick	Barnegat Lt., NJ	06/14/99	S Johnson	Barnegat Inlet, NJ	15	08/10/99
12	S Carlsen	Deal, NJ	07/23/99	J Kelly	Allenhurst, NJ	12	08/10/99
10	J Gibbons	Atlantic Beach Brdg., NY	05/31/99	J Costugho Sr.	Atlantic Beach Brdg., NY		08/10/99
14	C Kennedy	Offshr., Cape May Inlet, NJ	07/16/99	Unk. Fisherman	Offshr., Cape May In., NJ		08/10/99
15	V Viola	Moriches Inlet, NY	07/31/99	A Pirro	Moriches Inlet, NY		08/12/99
19	J Ross	Manasquan Inlet, NJ	07/11/99	A Nardone	Spring Lake, NJ		08/12/99
15	A D'Amato	Cape May, NJ	09/29/98	M Giuliante	20' Slough, DE Bay, NJ	19	08/12/99
12	C Kennedy	Hereford, Inlet, NJ	10/13/98	G Bachert	Ambrose Chan., NY	13	08/13/99
15	C Fiorillo	Avon, NJ	05/31/99	J Kovacs	Asbury Pk., NJ	15	08/15/99
13	J Hickey Jr.	Spring Lake, NJ	05/29/99	N Irons	Shark R., NJ		08/15/99
14	A D'Amato	Cape May, NJ	09/22/97	D Pelletier	Nantucket, MA		08/15/99
13	C Kennedy	Cape May, NJ	08/03/99	J Shute	Cape May, NJ	13	08/17/99
14	J Weber Jr.	Jones Inlet, NY	06/24/99	E Murphy	Jones Inlet, NY	14	08/17/99
13	J Weber Jr.	Jones Inlet, NY	05/13/99	K Stein	Fishers Is., NY		08/17/99
13	A D'Amato	Lower Delaware Bay, NJ	07/02/98	H Weir Jr.	Coney Is., NY	17	08/19/99
12	S Carlsen	Deal, NJ	07/18/98	I O'Connor	Rantan Reach Chan., NJ	19	08/19/99
12	J Weber Jr.	Merrick, NY	05/28/99	R DeMarco	Jones Inlet, NY		08/20/99
10	R Boyd	Marine Pkwy. Brdg., NY	05/29/99	H Griffith	Marine Pkwy. Brdg., NY		08/20/99
15	T Matraxia	Ambrose Chan., NY	08/14/99	G Bachert	Ambrose Chan., NY	15	08/22/99
14	B Shillingford	Strathmere, NJ	05/28/99	P Devlin	Corson's Inlet, NJ	17	08/23/99
14	S Reiss	Staten Is., NY	05/23/99	H Trimarchi	Staten Is., NY	14	08/23/99
14	W Filce	Deal, NJ	07/12/99	H Koch	Elberon, NJ	15	08/24/99
12	A D'Amato	Cape May, NJ	08/12/99	L Stiles	Cape May Inlet, NJ	13	08/24/99
13	L Gonnello	Ambrose Chan., NY	07/03/99	M Wohn	Verrazano Brdg., NY	15	08/24/99
14	J Weber Jr.	Merrick, NY	05/21/99	A Rubin	Jones Inlet, NY	17	08/25/99
13	J Yamakautis	Sandy Hook, NJ	07/12/99	G Bachert	Sandy Hook Chan., NJ	14	08/25/99
15	T Matraxia	Sandy Hook, NJ	07/15/99	G Bachert	Sandy Hook Chan., NJ	15	08/27/99
13	J Mayer	Ocean Grove, NJ	06/26/97	N.J.M.S.C.	Sandy Hook, NJ		08/28/99
14	J Hickey Jr.	Seaside Pier, NJ	09/07/97	D Britton	E Barnegat Inlet, NJ	15	08/28/99
13	C Wilcox III	Moriches Inlet, NY	06/20/99	Seafood Unl	Rhode Is. waters	15	09/02/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
15	V Viola	Moriches Bay, NY	08/07/99	W Carlough	Moriches Bay, NY	15	09/02/99
16	M Moore	Moriches Bay, NY	05/21/99	B Knight	Moriches Inlet, NY	18	09/03/99
20	M Habel	Raritan Bay, NJ	08/01/98	J Warch	Keansburg, NJ	25	09/04/99
11	B Notine	Romer Shoal, NJ	06/19/99	J Headman	Keansburg Pier, NJ	13	09/04/99
13	D Goodwin	Jones Inlet, NY	09/04/99	R Mildenberg	Reynold's Chan., NY	13	09/06/99
12	J White	Robert Moses Brdg., NY	07/16/99	J Bencivenga	Captree, NY	15	09/10/99
11	F Waltzinger III	Long Branch, NJ	08/02/99	I Brown	Sea Bright, NJ		09/11/99
13	D Miklos	DE Bay, DE	07/19/98	J Ricevuto	Ambrose Chan., NY	16	09/12/99
15	B Quick	Barnegat Lt., NJ	07/07/99	R Keith	Island Beach St. Pk., NJ	16	09/13/99
12	J Weber Jr.	Jones Inlet, NY	07/02/99	F Donohue	Jones Inlet, NY	14	09/14/99
14	J Weber Jr.	Jones Inlet, NY	06/24/99	B Gobeil	Landed, Cape Porpoise, ME		09/14/99
13	J Gibbons	Long Beach, NY	09/27/97	G Haddle	Landed, Hampstead, NC	16	09/15/99
15	T Matraxia	Raritan Bay, NY	06/12/99	E Klylov	Far Rockaway, NY		09/15/99
14	J Weber Jr.	Long Beach, NY	07/09/99	R Dietrich	Jones Inlet, NY		09/15/99
13	D Crann	Beach Haven, NJ	07/10/99	J Browne	Reef off L B.I., NJ	13	09/19/99
14	M Frawley Jr.	Shinnecock Bay, NY	08/05/99	F Schmidt	Shinnecock Bay, NY	16	09/25/99
12	J Weber Jr.	Long Beach, NY	06/05/99	K Simon	Atlantic Beach, NY	12	09/26/99
11	A Teal	Sandy Hook, NJ	06/06/99	J Folio	Pews Creek, NJ	14	09/28/99
12	J Weber Jr.	Jones Inlet, NY	06/24/99	D Voigt	Fire Is. Inlet, NY	14	09/28/99
13	S Fries	Fire Is. Inlet, NY	09/14/99	B Mistretta	Fire Is. Inlet, NY		09/28/99
12	T Carlsen	Deal, NJ	08/04/99	R Furth	Asbury Pk., NJ	15	10/07/99
14	F Waltzinger III	Long Branch, NJ	10/04/99	C Gilvear	Long Branch, NJ	14	10/08/99
14	W Filce	Ortley Beach, NJ	08/31/97	T Kogut	Mantoloking, NJ	16	10/10/99
14	T Stanik	West Bank Lt., NY	07/18/99	Unk. Fisherman	Cholera Bank, NY	16	10/12/99
14	T Carlsen	Shark R. Inlet, NJ	07/03/98	J West	Gloucester Pt., VA	17	11/01/99
25	W Stuvén	Eatons Neck, NY	09/29/98	R Wertheimer	Eatons Neck, NY	28	11/09/99
26	J Bunai	Moriches Bay, NY	07/10/99	M DeMusz	Offshr., Atlantic City, NJ	26	11/15/99
13	T Stanik		10/19/99	R McCune	Hatteras Inlet, NC	14	11/27/99
15	J Gibbons	Jones Beach, NY	07/31/99	J Jones	New Jersey waters	17	12/17/99

Great Barracuda

31	T Matraxia	Islamorada, FL	02/12/99	D Clark	Islamorada, FL		03/02/99
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7	B Jones	Battery Pk., NYC	09/18/99	B Kelly	Battery Pk., NYC		10/22/99
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Sea Robin

14	R Stasinós	Mid-L.I. Sound, NY	11/01/98	L Sears	Gardiners Is., NY		07/15/99
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Striped Bass

28	F Casey	Boston, MA	07/21/98	P Barday	Brant Rock, MA		08/15/98
18	P Grippo	Wantagh Brdg., NY	10/07/96	F Petillo Jr.	Sandy Hook, NJ	25	10/15/98
13	T Marburger	Northport, NY	04/27/96	J Buitendorp	Tappan Zee Brdg., NY	20	01/12/99
20	A Olivieri	Quincy Bay, MA	06/25/94	R Collins	Coastal DE	30	01/15/99
16	H Sweet	Warren, RI	09/18/98	J Kay	Bridgeport, CT		01/15/99
29	R Nystrom	Stratford, CT	08/16/98	S Moore	Oregon Inlet, NC		01/15/99
22	A Anderson	Thames R., CT	11/27/98	D Byrne	E Asbury Pk., NJ	22	01/17/99
15	A Anderson	Thames R., CT	11/27/98	D Roberts	Norwich, CT		01/17/99
36	R Kyker	Norwalk, CT	07/26/97	F Thomas	Hatteras, NC		01/17/99
19	A Anderson	Thames R., CT	12/05/98	R Mshar	Norwich, CT		01/18/99
27	L Gonnello	Flynns Knoll, NJ	06/08/98	R Moncure	Dahlgren, VA	28	01/20/99
22	G White	Piscataqua R., NH	07/27/97	A Anderson	Norwich, CT	24	01/23/99
19	GS Gray	Charlestown, RI	06/06/98	M Marr	Norwich, CT		01/23/99
18	B Cantz	Stone Harbor, NJ	09/13/98	M Calvi	Delaware Bay, NJ	18	01/26/99
22	A LoCascio	Manhasset Bay, NY	06/17/98	M Bozman	12 E Ocean City, MD		01/28/99
35	A LoCascio	Execution Lt., NY	06/11/97	R Williams	Rudee Inlet, VA	37	01/30/99
16	A Anderson	Thames R., CT	12/13/98	RE Lee	Norwich, CT	16	01/30/99
16	A Anderson	Thames R., CT	11/29/98	RE Lee	Norwich, CT	17	01/31/99
20	R Nystrom	Devon, CT	01/06/98	M Occhineri	Devon Pwr. Pit., CT	22	02/02/99
15	E Petronio Jr.	Pt. Judith, RI	10/30/97	P Marino	Devon, CT	21	02/02/99
25	A Anderson	Block Is., RI	06/08/98	Dockside Seafood	James R., VA	25	02/03/99
25	R Ries	Cold Spring Hbr., NY	08/23/98	D Jenkins	Jamestown Is., VA	26	02/09/99
18	R Bergeron	Kingston, MA	07/26/97	J Morris	N Uncasville, CT	21	02/10/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
33	M LeBlanc	Block Is., RI	07/16/97	H Holden	Oregon Inlet, NC	35	02/11/99
15	A Anderson	Thames R., CT	01/10/99	M Brycki Jr.	Montville, CT		02/12/99
15	E Murray	Gloucester Hbr., MA	08/20/98	A Anderson	Norwich, CT	1	02/15/99
21	A Anderson	Block Is., RI	06/23/98	R Clark	Napatree Pt., RI		02/17/99
25	A Anderson	Block Is., RI	06/08/98	M Bosse	VA Waters		02/18/99
22	P Lowcher	Sea Bright, NJ	04/19/98	R Abner	Chesapeake Beach, MD	23	02/19/99
27	A Anderson	Block Is., RI	06/05/98	E Hall	Offshr., Chincoteague, VA	32	02/20/99
27	A Anderson	Block Is., RI	06/14/98	E Hall	Offshr., Chincoteague, VA	34	02/20/99
15	A Anderson	Thames R., CT	01/10/99	J Morris	Uncasville, CT	16	02/21/99
25	R Templeton	Block Is., RI	08/07/98	R Arnold	Newport News, VA		02/25/99
14	A Drew Jr.	Charlestown, RI	07/24/98	J Lantagne	Norwich, CT	16	02/26/99
21	A Anderson	Pt. Judith, RI	10/30/97	J Hermann	Providence, RI	24	02/28/99
20	T Marburger	Northport, NY	02/14/99	J Combs	Little Neck Bay, NY	21	02/28/99
21	A Schweithelm	Crab Meadow Beach, NY	05/02/98	J Corbs	Little Neck Bay, NY	24	03/01/99
	A Schweithelm	Eatons Neck, NY	05/31/97	J Olney	James R., VA		03/01/99
32	A Anderson	Block Is., RI	11/09/98	R Colonne	Chincoteague, VA		03/02/99
21	A Drew Jr.	Charlestown, RI	06/06/97	E Bowe	Colonial Beach, VA		03/07/99
25	A Dangelo	Montauk, NY	08/11/96	E Bowe	Colonial Beach, VA		03/07/99
20	A Noronha	Warren, RI	07/15/98	T Marburger	Northport, NY	20	03/09/99
16	A Anderson	Thames R., CT	12/06/98	A Martin	Norwich Hbr., CT		03/11/99
23	A Anderson	Block Island, RI	06/16/98	C Massey	Lower DE Bay, DE		03/13/99
24	A Anderson	Block Is., RI	06/20/98	D Fry	Slaughter Beach, DE		03/15/99
20	G Blank	Jersey City, NJ	01/14/98	D Fry	Slaughter Beach, DE		03/15/99
27	F Casey	Boston Harbor, MA	09/10/97	D Fry	Slaughter Beach, DE		03/15/99
29	A Anderson	Montauk Pt., NY	10/24/97	D Fry	Slaughter Beach, DE		03/15/99
16	N Rouleau	Charlestown, RI	11/03/96	D Fry	Slaughter Beach, DE		03/15/99
23	M Berger	Jones Inlet, NY	11/01/97	D Fry	Slaughter Beach, DE		03/15/99
18	R Pearson Jr.	Croton Bay, NY	03/27/98	A Martin	Norwich Hbr., CT		03/17/99
18	T Marburger	Northport, NY	02/01/98	J Corbs	Little Neck Bay, NY	22	03/17/99
15	W Johnson	Stamford, CT	07/14/97	R Lombardi Jr.	Piermont, NY	20	03/19/99
18	A Anderson	Pt Judith, RI	11/02/98	R Croft	Montville, CT	18	03/21/99
14	A Anderson	Thames R., CT	12/13/98	J Lantagne	Norwich, CT	14	03/21/99
29	A Anderson	Block Is., RI	05/16/98	D Rowe	Windmill Pt., VA		03/21/99
27	J Posh	Fishers Is., NY	09/01/98	W Swann	Potomac R. Brdg, VA		03/22/99
14	A Anderson	Thames R., CT	11/29/98	A Martin	Norwich Hbr., CT	14	03/22/99
27	A Anderson	Block Is., RI	07/24/96	K Hundley	Westmoreland Cty., VA		03/23/99
19	T Marburger	Northport, NY	02/14/99	J Combs	Little Neck Bay, NY	22	03/24/99
18	A Drew Jr.	Charlestown, RI	08/04/98	C Lipscomb	Yonkers, NY	18	03/24/99
21	H Sweet	Barrington, RI	06/17/98	NJ Bur. of M. Fish	Delaware Bay, NJ	21	03/25/99
19	J O'Keefe	Stratford, CT	05/01/98	RI Div. of F & W	Potter Pond, RI	17	03/26/99
14	A LoCascio	Little Neck Bay, NY	02/28/98	I Sanchez	Randalls Is., NY	21	03/26/99
15	H Sweet	Warren River, RI	08/19/98	P Newman	Little Neck Bay, NY	15	03/27/99
13	A Drew	Charlestown, RI	06/17/94	F Fabrykas	Fenwick Is., DE	26	03/27/99
15	S Shillinger	Sandwich, MA	12/10/96	J Combs	Manhasset Bay, NY	23	03/28/99
14	A Anderson	Thames R., CT	12/06/98	T Martin	Norwich, CT	15	03/28/99
22	T Marburger	Northport, NY	03/02/99	J Combs	Manhasset Bay, NY	23	03/28/99
16	J Ragusa	Ocean Beach, NY	11/29/98	R Ameen	Piermont, NY	18	03/28/99
22	C Carroll Jr.	Island Bch. St. Pk., NJ	05/24/98	VA Inst. Mar. Sci.	York R., VA	24	03/30/99
30	G Ottavio	Cape May, NJ	11/08/98	R Cericoia	Lavalette, NJ		04/01/99
17	J Mahan	Jersey City, NJ	02/20/99	R Pancaldo	Scarborough, NY	17	04/02/99
17	W Woodroffe St.	Ft. Tilden, NY	12/12/98	J Jones	158th St., Hudson R., NY	18	04/02/99
15	A Anderson	Thames R., CT	03/21/99	J Cabral	Uncasville, CT		04/03/99
26	A Young	Matituck, NY	07/21/98	F Fabrykas	Fenwick Is., DE		04/03/99
11	R Kyker	Norwalk, CT	09/25/95	Y Kim	Oyster Bay, NY	25	04/03/99
17	T Marburger	Northport, NY	01/11/98	J Hernandez	Bronx, NY		04/05/99
24	F Como	New Rochelle, NY	07/29/97	J Hernandez	Bronx, NY		04/05/99
13	G Kerkhan	Morgan Cr., NJ	09/21/97	P Prokopenko	Sleepy Hollow, NY	20	04/05/99
17	G Ottavio	Cape May, NJ	10/01/97	K Gerbereux	Mauricetown, NJ	21	04/06/99
15	K Hollins	Island Bch. St. Pk., NJ	05/18/98	D Obropta	Union Beach, NJ		04/06/99
15	J Ragusa Sr.	Ocean Beach, NY	11/02/97	K Gerbereux	Mauricetown, NJ	18	04/06/99
26	N Fiorillo Jr.	Shrewsbury Rocks, NJ	11/11/97	A Grenier	Poquetanuck Cove, CT	28	04/07/99
23	G Horvath	Ortley Beach, NJ	11/08/98	P Prokopenko	Sleepy Hollow, NY		04/09/99
27	J Britton	Ocean City, NJ	11/02/96	M Michalsky	Susquehanna Flats, MD	30	04/09/99
26	T Marburger	Shinnecock Inlet, NY	07/11/95	F Draper	Susquehanna Flats, MD	35	04/09/99
22	A Schweithelm	Middletown, RI	09/27/98	R Leja	Bridgeport, CT	22	04/10/99
16	A Anderson	Thames R., CT	11/28/98	S Tremblay	Norwich, CT		04/10/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
26	A Anderson	Thames R., CT	12/19/98	V DiGianni	Norwich, CT		04/11/99
20	R Gomolson	Cape May, NJ	09/15/98	L SanFilippo III	Elsinboro Pt., DE R.	21	04/12/99
24	A Anderson	Montauk Pt., NY	05/25/98	A McReynolds	Perryville, MD	27	04/12/99
22	G Ottavio	Cape May, NJ	10/16/97	A Mecholsky	L. Alloway Cr., NJ	24	04/12/99
18	F Jessup	Moriches Inlet, NJ	11/10/98	J Bricca	E. Rockaway Inlet, NY		04/12/99
25	W Perlman	Atlantic Beach, NY	05/10/97	H Leon	Atlantic Highlands, NJ	29	04/13/99
16	A Anderson	Thames R., CT	12/05/98	A Lazuk	Montville, CT	17	04/13/99
19	A Noronha	Portsmouth, RI	10/10/98	R Avila	Dighton, MA		04/15/99
16	M Simmons	Barneget Lt., NJ	11/15/96	W Logan	Woodland Beach, DE		04/15/99
22	F Stunkel	Stamford, CT	09/14/97	G Hodges	Rappahannock R., VA		04/17/99
16	T Marburger	Northport, NY	03/09/97	W Robinson	Millsboro, DE		04/17/99
12	C Fiorillo	Long Branch, NJ	12/02/98	W McGuire	Fortesque, NJ		04/17/99
18	C Carroll Jr.	Monmouth Beach, NJ	04/18/98	G Brown	Cold Spring, NY	19	04/18/99
22	J Della Porta	Swampscott, MA	08/12/98	D Sposta	Throgs Neck Brdg., NY	24	04/18/99
41	C Kennedy	Cape May, NJ	11/08/98	B Slider	Conowingo Dam, MD		04/18/99
35	S Fries	Montauk, NY	10/13/97	P Petrick	Keyport, NJ	37	04/18/99
16	A Anderson	Thames R., CT	03/13/99	C White	Uncasville, CT		04/19/99
18	G Horvath	Manasquan Inlet, NJ	12/03/98	C Calabrese	Little Egg Hbr., NJ		04/20/99
	R Leeds	Ocean City, NJ	11/03/98	J Vazquez	Mays Landing, NJ	20	04/20/99
23	A Anderson	Thames R., CT	12/13/98	S Sutton	Norwich, CT	26	04/20/99
18	P Lowcher	Rumson, NJ	06/04/97	J Meadows	Delaware Bay, NJ	25	04/21/99
18	G Kerkhan	Mantoloking, NJ	11/15/98	J Muche	Townsend's Inlet, NJ	21	04/21/99
14	R Stasinos	Stamford, CT	11/08/98	E Osterhus	Glen Cove, NY		04/21/99
13	M Wahlgren	Plum Is., MA	05/21/98	S Long	Sleepy Hollow, NY	20	04/21/99
23	A Anderson	Thames R., CT	03/28/99	B McDermott	Norwich, CT	23	04/21/99
12	A Perednia	East R., NYC	04/15/99	L Treptow	Croton Bay, NY	14	04/22/99
18	NMFS, NE Fish. Ctr.	Southampton, NY	11/23/98	J Mahan	Jersey City, NJ		04/22/99
15	H Sweet	Warren, RI	09/03/98	R Tindall	Somers Pt., NJ	17	04/22/99
16	A Schweithelm	Sunken Meadow St. Pk., NY	06/21/97	J Marnelli	Croton, NY	19	04/22/99
23	J Ragusa	Ocean Beach, NY	10/23/98	J Dotson	Leonardo, NJ	23	04/23/99
15	A Anderson	Thames R., CT	02/15/99	E Key Jr.	Thames R., CT		04/23/99
17	R Vogel	Rumson, NJ	06/28/97	J Kenney	Secaucus, NJ	23	04/24/99
17	R Pearson Jr.	Breezy Pt., NY	11/20/98	T Donachy	Cliffwood Beach, NJ		04/24/99
14	R Kyker	Norwalk, CT	05/28/98	H Ventura	City Is., NY		04/25/99
35	J Rossi	Buoy 13, Ambrose Chan., NY	06/09/98	R Rode Jr.	Montauk Pt., NY	40	04/25/99
18	G Kerkhan	Sea Bright Brdg., NJ	08/01/98	P Jakubecy	Red Bank, NJ	20	04/25/99
22	A Anderson	Thames R., CT	12/19/98	R Beaufileu	Norwich, CT	24	04/25/99
20	R Nystrom	Bridgeport, CT	10/03/98	R Dobrowolski	Trenton, NJ		04/26/99
20	E Petronio Jr.	Pt. Judith, RI	10/16/98	S McKenna	S. Kingstown, RI	20	04/27/99
27	A Anderson	Block Island, RI	05/24/98	I Deihl IV	White Stone, VA		04/27/99
15	A Schweithelm	Northport, NY	12/04/98	S Agostinno	Eltzabeth, NJ		04/28/99
30	L Quinn	Provincetown, MA	07/24/98	M Guest	Solomons Is., MD	30	04/28/99
13	A Anderson	Thames R., CT	11/29/97	T Douglas	Montville, CT	18	04/28/99
20	N Kittredge	Narragansett, RI	10/18/97	K Hamel	Wappingers Falls, NY		04/28/99
15	A Anderson	Thames R., CT	01/10/99	W Reed	Montville, CT		04/29/99
28	A Anderson	Thames River, CT	12/27/98	J Matera	Norwich, CT	32	04/29/99
28	A D'Amato	Cape May, NJ	04/08/99	H Faux	Ship Bottom, NJ	28	04/29/99
20	A Drew Jr.	Charlestown, RI	10/31/95	D Hyun	Newburgh, NY	23	04/29/99
21	A Anderson	Thames R., CT	12/19/99	H Gingras	Norwich, CT	21	04/30/99
36	F Tellefsen	Old Orchard Lt., NY	11/20/97	J North	Poughkeepsie, NY		04/30/99
19	J Karolidis	Beverly, MA	10/09/97	P Manos	Branford, CT	22	04/30/99
25	R Conklin	Moriches Inlet, NY	06/21/98	M Senoff	Raritan R., NJ	29	04/30/99
23	R Szellan	Sandy Hook, NJ	11/01/98	J Bell	Penns Grove, NJ		04/30/99
17	D Hoxsie	Charlestown, RI	05/25/98	J English	Island Beach St Pk., NJ	19	05/01/99
25	J Beaver	Romer Shoal, NJ	05/25/98	D Lilly	Shrewsbury R., NJ	27	05/01/99
12	A Perednia	East R., NY	11/10/97	J Consoli	Newburgh/Beacon Brdg., NY	15	05/01/99
24	P Hartsgrove	Shrewsbury R., NJ	06/06/97	M Walters	Highlands Brdg., NJ	29	05/01/99
24	R Nystrom	Fairfield, CT	08/17/97	J McGuire	Corwall, NY	24	05/02/99
18	C Fiorillo	Avon, NJ	11/16/98	D Rice	West Point, NY	19	05/03/99
16	H Sweet	Providence, RI	09/24/98	J Grimes	Hudson R., NY		05/03/99
34	A Anderson	Montauk Pt., NY	10/04/97	R Taylor	Boston, MA	35	05/03/99
30	A Anderson	Block Is., RI	06/02/98	L Gonnello	Old Orchard Lt., NY	31	05/04/99
32	A Anderson	Block Is., RI	06/07/98	W Forbes	Greenville, CT	34	05/05/99
24	C Carroll Jr.	Shrewsbury River, NJ	05/19/98	J Gibbons	Sea Bright, NJ	26	05/05/99
18	F Bovasso	Manasquan Inlet, NJ	11/29/97	J Christ	Robert Moses Brdg., NY	20	05/06/99
32	R Kalenka	Montauk Pt., NY	11/12/96	J Bestler	5 mi. S of Albany, NY		05/06/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
24	R Vogel	Sandy Hook, NJ	07/06/98	L Gonnello	Flynn's Knoll, NJ	27	05/06/99
17	J Gibbons	Far Rockaway, NY	12/06/98	S Cohen	Prudence Is., RI	17	05/06/99
32	A D'Amato	Cape May, NJ	11/18/98	R Catania	4 mi. off Clinton, CT	32	05/06/99
16	D Stratton	Norwich, CT	06/22/97	R Matteau	Norwich, CT	20	05/07/99
16	M Simmons	Barneget Lt., NJ	11/05/96	P Mahon	Island Beach St. Pk., NJ	24	05/07/99
20	A Anderson	Block Is., RI	06/12/98	M Grimstead	Yeocomico R., VA		05/07/99
19	R Stasinos	Stamford, CT	07/05/98	G LaFoe	5 mi. S of Kingston, NY	22	05/07/99
24	R Leja	Bridgeport, CT	04/10/99	K Burke	Glastonbury, CT		05/07/99
29	R Baumann	Sea Bright, NJ	11/30/98	W Dietz	Chesapeake Beach, MD		05/07/99
31	M Brooking	Troy Dam, NY	05/02/99	G Hopkins	Troy Dam, NY	31	05/07/99
24	H Schauer	Martha's Vineyard, MA	05/04/98	A Lehmann	Boston Harbor, MA	28	05/08/99
22	R Kalenka	Shinnecock Bay, NY	07/05/97	B DeSantis	Spring Lake, NJ	25	05/08/99
24	F Laskowski	Fairfield, CT	05/22/99	F Castelluccio	Hudson R., NY	25	05/08/99
24	R Conklin	Moriches Inlet, NY	10/20/98	J Duncan	Cape Cod Canal, MA	27	05/08/99
27	W Marker	E Rockaway Inlet, NY	10/04/98	A Dalessio	Breezy Pt., NY	28	05/08/99
27	A Anderson	Montauk Pt., NY	10/24/97	J Ferris	Taunton R., MA	31	05/08/99
18	A LoCascio	Manhasset Bay, NY	09/03/96	A Theil	Cold Springs, NY	22	05/08/99
17	G Nigro	Sandy Hook, NJ	11/28/98	G Burger	Mantoloking, NJ	17	05/08/99
18	A Anderson	Galilee, RI	10/30/98	R Chamberlain	Island Beach St. Pk., NJ	19	05/08/99
20	R Templeton	Charlestown, RI	10/24/98	S Hewitt	Newport, RI		05/09/99
25	G Nigro	Sandy Hook, NJ	11/23/98	L Sehna	Outerbridge Cr., NY	25	05/09/99
23	W Brett	Provincetown, MA	08/21/98	E Rnofleisch	Cape Cod Canal, MA	25	05/09/99
18	E Petronio Jr.	Pt. Judith, RI	10/31/97	F Migliori	Deal, NJ	24	05/09/99
22	T Matraxia	The Race, L.I. Sound	11/01/98	S Hewitt	Newport, RI		05/09/99
22	C Malta	Shrewsbury Rocks, NJ	10/29/97	J Law	Surf City, NJ	24	05/09/99
27	A Anderson	Block Is., RI	07/17/97	D Johnson	Cromwell, CT	33	05/09/99
21	R Kyker	Norwalk, CT	08/02/96	J Mylod	S Poughkeepsie, NY	24	05/09/99
24	A Anderson	Thames R., CT	03/21/99	T Pitas	1 mi. S Hartford, CT	25	05/10/99
26	B Doan	Stone Harbor, NJ	11/29/98	R Moylan	Jones Beach, NY	26	05/10/99
31	A Anderson	Block Is., RI	05/16/98	S Salafia	Middletown, CT	33	05/10/99
27	L Gonnello	Breezy Pt., NY	07/19/98	P Lowcher	Highlands Brdg., NJ	29	05/12/99
18	T Marburger	Northport, NY	03/19/96	S Palamar	Shelton, CT	24	05/12/99
15	H Sweet	Bristol, RI	07/02/98	R Sullivan	Ship Bottom, NJ	18	05/13/99
22	M Simmons	Barneget Lt., NJ	05/19/98	M Alpert	Pt. Pleasant Canal, NJ		05/13/99
20	T Marburger	Northport, NY	04/25/99	R Kei	Stratford, CT		05/13/99
25	A LoCascio	Dauids Is., NY	07/15/96	L Materia Jr.	Kingston, NY	26	05/14/99
23	D Zurheide	Bay Ridge, NY	06/21/97	J Strohmeier	Bay Ridge, NY	26	05/14/99
23	G Ottavio	Cape May, NJ	12/06/98	F DiCarlo	Massapequa, NY		05/14/99
20	R Allen	Ches. Bay Brdg. Tun., VA	03/24/99	J Rubbiccio	Popponeset Bay, MA		05/14/99
26	A Anderson	Block Is., RI	08/12/98	G Best Is.	Island Beach St. Pk., NJ	28	05/15/99
29	A Anderson	Montauk Pt., NY	10/19/97	A Pellegrn	Cape Cod Canal, MA	31	05/15/99
20	A Young	Mattituck, NY	08/27/98	H Buss	Seaside Heights, NJ	22	05/15/99
35	A Anderson	Montauk Pt., NY	10/03/97	W Labodin	Kingston, NY	36	05/15/99
32	J Mettler	Fishers Is., NY	10/10/97	P Delianedis	Bourne, MA	36	05/15/99
19	D Furtado	Fall River, MA	10/27/98	P Dube	Tiverton, RI	25	05/15/99
15	R Stasinos	Stamford, CT	09/20/98	J Devaney	Bayonne, NJ	15	05/15/99
28	A Anderson	Montauk Pt., NY	10/24/97	E Pron	Barnstable, MA	28	05/15/99
30	A Anderson	Block Is., RI	10/25/98	H Snowden III	Bass R., Cape Cod, MA	31	05/15/99
22	R Baumann	Sea Bright, NJ	11/18/98	B Gibson	Gloucester, MA		05/15/99
22	W Perlman	Atlantic Beach, NY	07/29/98	S Libby	Atlantic Beach Brdg., NY		05/15/99
16	B Gray	Charlestown, RI	09/11/98	K Genola	Elberon, NJ	20	05/15/99
15	A Anderson	Thames R., CT	12/26/97	J Carr	Newport, RI		05/15/99
20	R Leja	Bridgeport, CT	08/08/98	D Ziegenfuss	Island Beach St. Pk., NJ	22	05/15/99
22	A Anderson	Block Island, RI	06/23/98	G Gutjahr	Lambertville, NJ	29	05/15/99
23	P Lowcher	Sea Bright, NJ	04/18/98	P Conte	Sea Bright, NJ	24	05/15/99
25	F Coronato	West Bank Lt., NY	06/24/98	R Grabowski	Newark Bay, NJ	27	05/15/99
18	W Avis	Reeds Beach, NJ	06/27/95	M Dalessio	Great Kills, NY	31	05/15/99
13	A Anderson	Thames R., CT	12/19/98	P Vigheno	Groton, CT	15	05/15/99
24	G Ciriello	Sandy Hook, NJ	10/04/96	S Torpey	Sandy Hook, NJ	29	05/15/99
26	E Bannon	Flynn's Knoll, NJ	07/12/97	F Tenore	Sandy Hook, NJ	32	05/15/99
28	R Nystrom	Bridgeport, CT	10/05/98	M Enriquez	Derby, CT	30	05/16/99
26	A Anderson	Montauk Pt., NY	05/15/99	A Anderson	Montauk Pt., NY	26	05/16/99
21	R Templeton	Charlestown, RI	10/04/97	R Coffman	Reynolds Chan., NY	29	05/16/99
22	R Kyker	Stamford, CT	08/16/98	B Hoblitzell	Raritan Bay, NJ	23	05/16/99
15	H Sweet	Warwick, RI	05/14/98	J Kilsley	Prudence Is., RI	19	05/16/99
18	T Shaheen	Navesink R., NJ	07/02/97	T Shaheen	Rumson, NJ	21	05/16/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
18	P Grippo	Haunts Creek, NY	08/03/97	F DiCarlo	Massapequa, NY	23	05/17/99
38	R Gardrel	Block Is., RI	08/08/98	C Piraino	Hyde Park, NY		05/17/99
18	G Nigro	Sandy Hook, NJ	11/29/98	T Powers	Penns Grove, NJ		05/17/99
34	B Shillingford	DE Bay, NJ	11/04/97	B Schaeffer	Delaware Bay, DE	36	05/17/99
23	N Fiorillo Jr.	Deal, NJ	11/04/97	J Nunziato	Pt. Pleasant Canal, NJ	29	05/17/99
22	D Mann	Montauk, NY	10/13/98	A Lehmann	Boston, MA	23	05/17/99
22	R Grobarz	Sandy Hook, NJ	10/05/98	J Huszar	Sandy Hook, NJ	24	05/17/99
22	P Chowansky	Sea Girt, NJ	05/31/98	R Burdi	Brant Beach, NJ		05/18/99
17	A Anderson	Thames R., CT	05/01/97	M Gmyrek	Cape Cod Canal, MA	23	05/18/99
20	R Marzo	Island Beach St. Pk., NJ	10/25/97	W Pfizenmayer	Barnegat Inlet, NJ	24	05/18/99
21	B Quick	Loveladies, NJ	07/16/96	B Suralek Sr.	Tuckerton, NJ	26	05/19/99
24	A Anderson	Block Is., RI	06/12/98	A Strassburger	Ocean Grove, NJ	24	05/19/99
25	C Kennedy	Cape May, NJ	12/03/98	K Parizo	Martha's Vineyard, MA	26	05/19/99
18	R Pearson Jr.	Debs Inlet, NY	11/15/98	C Leonard	Pt. Pleasant Canal, NJ	18	05/20/99
17	M Strober	Jersey City, NJ	05/30/98	R King	Hudson R., NY		05/20/99
31	R Kyker	Norwalk, CT	07/02/98	R Miller	Mid L.I. Sound, NY	33	05/20/99
23	J Caville	Cape May, NJ	08/04/98	T Drueding	Cape May Inlet, NJ	25	05/20/99
24	W Perlman	Atlantic Beach Brdg., NY	06/19/97	B Braccia	Atlantic Beach Brdg., NY	27	05/20/99
21	G Blank	East R., NYC	10/31/98	R Romero	East R., NYC		05/20/99
15	L Vosseller	Loveladies, NJ	12/08/98	R Sinatra	Sag Harbor, NY		05/20/99
24	R Conklin	Moriches Inlet, NY	11/11/97	W Perlman	Atlantic Beach, NY	25	05/20/99
26	L Gonnello	Sandy Hook, NJ	06/29/98	T Matraxia	Flynn's Knoll, NJ	26	05/21/99
25	W Perlman	Atlantic Beach, NY	07/25/98	E Nichols	Shinnecock Bay, NY	29	05/21/99
21	R Kyker	Norwalk, CT	06/14/97	T Van Voorhis	Old Esopus Lt., NY		05/21/99
19	J Dickinson	Susquehanna Flats, MD	04/20/99	C Shrey	Chester, PA	20	05/21/99
16	D Hoxsie	Charlestown, RI	08/25/98	F Lewie	Charlestown, RI	19	05/21/99
21	D Bovasso	Ortley Beach, NJ	11/25/98	J Bissett Jr.	Salisbury Beach, MA		05/21/99
23	G Horvath	Barnegat Inlet, NJ	12/11/98	M Duhaime	Newburyport, MA	25	05/22/99
26	W Stuvén	Eaton Neck, NY	09/29/98	C Costigan	Great Kills, NY	27	05/22/99
23	G Blank	East R., NYC	10/30/98	E Scola	Verrazano Brdg., NY	23	05/22/99

_____ Yes, I want to be a member of the American Littoral Society.

_____ I am currently a member and here are my renewal dues.

Enclosed is my check for \$_____. With these annual membership dues I will receive the *Coastal Reporter* newsletter, the *Underwater Naturalist* journal, field trip and event information, tagging privileges, and any local chapter newsletters and information.

_____ Individual/ Family \$25

_____ Senior \$15

_____ Student \$15

_____ Club/ Library \$30



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_____ Supporting \$100

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Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
22	P Lowcher	Rumson, NJ	06/04/97	G Nigro	Keyport, NJ	25	05/22/99
27	G O'Driscoll	Gravelling Pt., NJ	03/30/99	B Mahoney	Brick Beach, NJ	27	05/22/99
30	J Posh	Watch Hill, RI	06/21/98	R Stevens	Enfield, CT	33	05/22/99
23	W Brett	Wellfleet, MA	09/30/98	B Richards	Essex R., MA	25	05/22/99
31	A Anderson	Montauk Pt., NY	10/04/97	P Pabon	Throgs Neck Brdg., NY	39	05/22/99
28	D Kelly	Sag Harbor, NY	06/09/97	A Menzel	Raritan Bay, NY	33	05/22/99
20	M Russo	Sailors Haven, F.I., NY	11/02/98	E Walsh	Cape Cod Canal, MA	25	05/22/99
21	J McAfee	Robinson's Hole, MA	09/19/96	S Whitting	E Montauk Pt., NY	24	05/23/99
14	J Beck	Reeds Beach, NJ	09/10/95	K Framhein	Silver Beach, NJ	22	05/23/99
24	A Anderson	Montauk Pt., NY	06/29/98	J Collins	Harwich, MA	27	05/23/99
22	R Grobarz	Shrewsbury R., NJ	06/12/98	R Grobarz	Shrewsbury R., NJ	25	05/23/99
20	GR Gray	Charlestown, RI	06/06/98	N Valente	Montauk, NY		05/23/99
21	R Conklin	Moriches Inlet, NY	06/19/98	K Langfeld	Island Beach St. Pk., NJ	23	05/23/99
24	M Bolton	Middletown, RI	07/15/96	S Coleman	Assateague, MD	27	05/23/99
19	T Shaheen	Rumson, NJ	06/23/98	J Hess	Harvey Cedars, NJ	21	05/24/99
22	C Carroll Jr.	Keyport, NJ	03/21/99	J Lawless	Saugerties, NY		05/24/99
29	G Blank	Hell Gate, NYC	11/14/98	B Falco	Cold Spring Hbr., NY		05/24/99
25	A LoCascio	Hart Island, NY	07/02/98	E Liss	W.L.I. Sound	27	05/24/99
17	H Sweet	Providence, RI	09/25/98	R Benanga	Orchard Beach, NY	20	05/24/99
15	A Gray	Wechawkin, NJ	04/10/98	H Roca	Wantagh Brdg., NY		05/25/99
21	T Marburger	Northport, NY	03/05/95	J Kaminsky	N Mattuck Inlet, NY	27	05/25/99
23	J Garibaldi	Norwalk, CT	10/03/98	R Romero	East R., NYC		05/25/99
30	C Slocum	Highlands Brdg., NJ	10/14/96	R Kubria	Green Is., NY	34	05/25/99
23	P Grippo	Haunts Creek, L.I., NY	06/07/97	G Hhigh	Island Bch. St. Pk., NJ	29	05/26/99
29	A Anderson	Thames R., CT	01/10/99	B Whelan	Martha's Vineyard, MA	29	05/26/99
30	R Paganini	E. Rockaway Inlet, NY	11/12/97	J Holmes	Atlantic Bch Brdg., NY	30	05/26/99
19	L Vosseller	Loveladies, NJ	11/20/98	G Matteson	Providence, RI	21	05/26/99
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22	B Baker	Nauset Lt., MA	06/15/97	C Gargiulo	New Rochelle, NY	26	05/26/99

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Fields of Sun and Grass by John R. Quinn. In the shadow of Manhattan, largely unnoticed by the millions of motorist zooming by on one of the world's busiest highways, lies the Meadowlands. Naturalist John Quinn, through his sketches and writing, shows us the beauty, history, and political complexities of this great American urban wildernesses. \$16

Life in the Chesapeake Bay by Alice & Robert Lip-pon. A guide to more than 100 kinds of fishes and species of crabs, clams, jellyfishes, sponges, and other invertebrates commonly found in the Chesapeake Bay and coastal inlets from Cape Hatteras to Cape Cod. Wonderful reading, beautifully illustrated. \$14.

AMERICAN LITTORAL SOCIETY BOOKS

Anglers Guide to Sharks by Jack Casey A classic field guide to the sharks that inhabit the waters from Maine to the Chesapeake Bay. \$3.

New Jersey Coastwalks by D. W. Bennett. Pack a lunch, put on your walking shoes, get in your car, and drive to Kearny, NJ. At this point take out your copy of NJCW and follow the author's route from Kearny to Cape May and on to the Delaware Bay. Always changing, the coastline of New Jersey offers many surprises. This book will take you on a watery tour that will fascinate and teach you at the same time. \$5.

OTHER ITEMS

Golf Style Short Sleeve Knit Shirt: White with ALS logo, 60% combed cotton, 40% polyester. In sizes large and extra large. Was \$25, now \$20. M, L, XL & 2XL

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 Series 1: Fishes of the Atlantic - Pacific Green
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 Series 3: Coastal Ducks - Sandstone
 Order by Series number 100% cotton w/art work on the back and American Littoral Society on the front pocket. M, L, XL \$15.

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Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
19	R Paganini	Rockaway, NY	06/24/93	E Lang	Jones Inlet, NY	30	05/27/99
17	A Schweithelm	Eatons Neck, NY	04/24/99	J MacKenzie	Warwick, RI	17	05/27/99
27	N Fionillo Jr.	Shrewsbury Rocks, NJ	11/12/97	C Laurice	Fire Is. Inlet, NY	30	05/27/99
19	E Petronio Jr.	Pt. Judith, RI	08/22/98	B White	Wakefield, RI	19	05/27/99
16	A Anderson	Thames R., CT	11/28/98	J Levy	Pawcutuck R., RI	16	05/28/99
24	J O'Keeffe	Stratford, CT	05/04/99	J Stebar	Derby, CT	26	05/28/99
25	J Beaver	Sandy Hook, NJ	08/25/98	J Devine	Sandy Hook, NJ		05/28/99
34	F Tellefsen	Princess Bay, NY	05/26/97	P Krueger	Breezy Pt., NY	35	05/28/99
26	J Gibbons	Sea Bright, NJ	06/21/95	E Nathanson	Long Branch, NJ	34	05/28/99
28	J Gibbons	Flynn's Knoll, NJ	10/21/96	J Springer	Troy, NY	32	05/28/99
22	A Anderson	Pt. Judith, RI	11/01/97	P Plantz	Derby, CT	25	05/29/99
20	G Kerkhan	Provincetown, MA	10/05/98	F Jacobs	North Truro, MA	21	05/29/99
26	L Gonnello	Sandy Hook, NJ	06/12/98	J Young	Reedville, VA	29	05/29/99
26	G Ottavio	Cape May Pt., NJ	11/12/98	D Baillargeon	Beverly, MA	26	05/29/99
19	JC Wright	VA/NC Border	12/11/97	R Gamunisch	New Point, VA	19	05/29/99
26	D Salvadori	Jones Inlet, NY	07/09/97	L Richards	Freeport, NY	28	05/29/99
29	A LoCascio	Hart Island, NY	06/29/98	G Ericksen	Manhasset Bay, NY	29	05/29/99
18	E Petronio Jr.	Charlestown, RI	10/24/98	D Dahlstrom	Nauset Beach, MA	18	05/29/99
19	R Leeds	Ocean City, NJ	08/08/98	S Burke	Ocean City, NJ		05/29/99
24	H Sweet	Bristol, RI	07/01/97	M Orosz	Westbrook, CT	35	05/29/99
20	R Allen	Ches. Bay Brdg. Tun., VA	02/17/99	K Conerly	Ches. Bay Brdg. Tun., VA		05/29/99
21	A D'Amato	4 mi. S Cape May, NJ	12/10/97	W Grabczewski	Pt. Pleasant Brdg., NJ	24	05/30/99
32	S Keiper	Indian R.Inlet, DE	10/25/97	D Wayman	Perth Amboy, NJ		05/30/99
22	T Marburger	Shinnecock Inlet, NY	06/16/98	D Kaye	Shinnecock Bay, NY		05/30/99
26	A Anderson	Block Is., RI	06/10/98	D Bienseke	Jones Beach Inlet, NY	28	05/30/99
20	A Anderson	Thames R., CT	11/28/98	M Lotti	Gloucester, MA	22	05/30/99
28	R Allen	Cape Charles, VA	03/12/97	R Taylor	Pt. No Point, MD	33	05/30/99
20	T Marburger	Northport, NY	05/01/99	M Guskey	Fishers Is., NY	22	05/30/99
21	R Kyker	Norwalk, CT	09/20/96	J Molina	City Is., NY	27	05/30/99
21	A Anderson	Thames R., CT	03/21/99	J Starow	Westerly, RI		05/30/99
21	R Nystrom	Stratford, CT	05/12/99	W Yackel	Wading R., NY	23	05/30/99
23	R Conklin	Moriches Inlet, NY	08/19/98	G Guydish Jr.	Moriches Bay, NY	25	05/31/99
18	J Karolides	Beverly, MA	05/28/94	J Domingos	Boston, MA	24	05/31/99
19	G Horvath	Barnegat Inlet, NJ	09/17/98	R Renkart	Harrison, NJ	22	05/31/99
20	R Nystrom	Devon, CT	03/19/98	G Karas	Derby, CT	25	05/31/99
18	R Stroz	Shrewsbury R., NJ	11/15/96	M Mart	Hell Gate, East R., NY	23	05/31/99
17	J Ragusa Sr.	Fair Harbor, NY	09/17/97	G Greene	Great South Bay, NY		05/31/99
21	R Szellan	Coney Is., NY	12/20/98	B Wazer	Westerly, RI	23	05/31/99
21	A Anderson	Thames River, CT	12/27/98	J Cox	Scituate, MA		05/31/99
	W Woodroffe	Rockaway, NY	11/21/96	R Katz	Bridgeport, CT	20	06/01/99
23	P Lucas	Boston, MA	07/22/98	N Clark	Ches. Bay Brdg. Tun., VA	25	06/01/99
23	A Anderson	Block Is., RI	06/08/98	W Ashton	Hoopersville, MD		06/01/99
31	S Jakubowski	Raritan Bay, NY	05/06/99	F Trupia	Shinnecock Inlet, NY	32	06/01/99
27	C Wilcox III	Moriches Inlet, NY	09/02/98	M Lange	Moriches Inlet, NY	30	06/01/99
25	A Anderson	Block Is., RI	06/06/98	G Otto	Trenton, NJ	28	06/02/99
23	T Shaheen	Sea Bright, NJ	08/30/98	P Lowcher	Shrewsbury R., NJ	25	06/02/99
27	R Vogel	Sandy Hook, NJ	06/16/98	T DeMarco	Pt. Lookout, MD	29	06/02/99
23	W Perlman	Atlantic Beach, NY	07/29/98	L Pullman	Atlantic Beach Brdg., NY	26	06/02/99
23	D Kelly	Orient Pt., NY	08/10/97	J Mazzeo	Ocean City, NJ	27	06/02/99
26	C Silva	Little Compton, RI	08/02/98	C Silva	Middletown, RI	26	06/02/99
20	G Blank	East R., NY	10/10/98	J Schiavone Jr.	58th St., Bklyn, NY		06/02/99
24	W Woodroffe	Ft. Tilden, NY	12/12/97	A Lehmann	Boston, MA	28	06/03/99
24	C Kennedy	Hereford Inlet, NJ	11/20/97	W Vetter	Yardley, PA		06/03/99
18	D Hoxsie	Charlestown, RI	05/22/98	A Lorenzo	Charlestown, RI	23	06/04/99
17	M Simmons	Barnegat Light, NJ	11/20/97	R Jackson Jr.	Susquehanna Flats, MD	18	06/04/99
27	A Noronha	Portsmouth, RI	05/14/99	R Buchanan	Little Compton, RI		06/05/99
23	P Lowcher	Sea Bright, NJ	05/20/98	E Krawz	Highlands Brdg., NJ	24	06/05/99
20	A Schweithelm	Eatons Neck, NY	05/02/99	R Biagi	Greenwich, CT	21	06/05/99
31	A Anderson	Block Island, RI	06/14/97	M Formosa	Hempstead Hbr., NY	33	06/05/99
19	G Ottavio	Cape May, NJ	11/12/98	J Lewis	Dividing Cr, DE Bay, NJ	20	06/05/99
36	F Casey	Boston Harbor, MA	07/31/97	T Morvillo	Brenton Reef, RI	37	06/05/99
18	J Della Porta	Swampscott, MA	08/31/97	U Fisherman	Wantagh Pkwy. Brdg., NY	27	06/05/99
22	A Anderson	Thames River, CT	12/27/98	M Carlson	Groton, CT	24	06/05/99
27	A Anderson	Block Is., RI	07/08/98	G Ross	Orchard Beach, NY	29	06/05/99
26	C Messina	Montauk, NY	10/21/94	D Rosa	Pelham Bay, NY	35	06/05/99
20	J Kish	Lower DE Bay, NJ	04/20/97	Unk. Fisherman	Newport News, VA	24	06/05/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
18	G White	Piscataqua R., NH	08/14/98	P Rzczycki	Merrimack R., MA	20	06/05/99
28	J Gibbons	Shrewsbury R., NJ	05/19/99	P Lowcher	Shrewsbury R., NJ	28	06/05/99
16	A Anderson	Thames R., CT	01/23/99	J Sheahan	Bass River, MA		06/06/99
20	T Marburger	Northport, NY	04/27/99	V Mangano	New Rochelle, NY	21	06/06/99
20	A Anderson	Thames R., CT	02/15/99	R Weeman	Kittery, ME		06/06/99
27	J Foti	Staten Is., NY	10/04/98	R Tosto	Great Killis, NY	28	06/06/99
19	R Grobarz	Mantoloking, NJ	11/09/98	C Kropp	Mattituck, NY	19	06/06/99
24	A Anderson	Block Is., RI	06/20/98	A Anderson	Block Is., RI	25	06/07/99
20	R Pearson Jr.	Croton Bay, NY	04/07/99	O Everett	Canarsie, NY		06/07/99
29	O Van Helmond	Westhampton, NY	09/19/97	J Pillier	Jones Inlet, NY	32	06/07/99
22	W Woodroffe	Brick, NJ	11/29/97	H Beane	Wellfleet, MA	23	06/07/99
26	F Auriti	Statue of Liberty, NJ	07/07/98	A Ristori	Hudson R., NYC	27	06/07/99
20	R Conklin	Moriches Inlet, NY	10/02/98	S Soltes	Moriches Inlet, NY	26	06/07/99
23	R Vogel	West Bank Lt., NY	07/10/97	E Kachurak	Flynn's Knoll, NJ	24	06/07/99
36	D Crann	Montauk Pt., NY	09/20/98	P Medeiros	Fall River, MA	38	06/07/99
23	J Mohres	Flynn's Knoll, NJ	06/01/98	E Kachurak	Flynn's Knoll, NJ	24	06/07/99
22	F Jakob	Island Beach St. Pk., NJ	08/29/98	J Ditchkus	Island Beach St. Pk., NJ	29	06/07/99
22	A LoCascio	Manhasset Bay, NY	12/04/94	J Ciraco	S of Rockaway Reef, NY	32	06/08/99
16	M LeBlanc	E. Providence, RI	08/07/97	D Rivera	Hudson R., NY	18	06/08/99
18	H Lufburrow	Highlands, NJ	06/01/97	D Dodas	Sandy Hook, NJ	24	06/08/99
30	A Schweithelm	Ft. Salonga, NY	06/09/96	T Keller	DE Bay, NJ	38	06/09/99
24	A Messina Jr.	Little Neck Bay, NY	04/28/99	J Valentine	Freeport, NY	25	06/09/99
26	A Anderson	Block Is., RI	06/15/97	J Rogers	Milford, CT	30	06/09/99
16	A Anderson	Thames R., CT	03/21/99	R Rosen	Camp Ellis, ME	17	06/09/99
24	A D'Amato	Cape May, NJ	12/28/98	D Torino	Sandy Hook, NJ	24	06/09/99
22	R Stroz	Shrewsbury R., NJ	10/02/98	T Shaheen	Highlands Brdg., NJ	24	06/09/99
18	J Ragusa Jr.	Ocean Beach, NY	11/04/98	K Cancel	E. Canarse, NY	18	06/09/99
24	M Russo	Sailor's Haven, NY	09/14/98	M Aristizabal	Ft. Tilden, NJ	28	06/10/99
22	M Romano	Kill Van Kull, NJ	06/14/93	W Hanlon	Sandy Hook, NJ	29	06/10/99
26	A D'Amato	Wildwood, NJ	12/04/98	J Torosian	Merrimack R., MA	27	06/11/99
22	L Gonnello	Sandy Hook, NJ	07/19/98	G DeSiato	Flynn's Knoll, NJ	23	06/11/99
27	A Anderson	Block Is., RI	05/23/98	G Cedar	Merrimack R., MA	28	06/11/99
19	P Lowcher	Rumson, NJ	06/24/97	T Hartig	Sandy Hook, NJ	25	06/11/99
24	C Maxon	Boston Lt., MA	05/27/99	R Lindsay	Boston, MA	24	06/11/99
17	A Anderson	Thames R., CT	03/13/99	P Mushroe	Sandwich, MA	18	06/11/99
22	P Lowcher	Rumson, NJ	04/11/98	F Urban	Sandy Hook, NJ	24	06/11/99
25	S North	Bay Head, NJ	11/28/98	R Varney	Provincetown, MA	25	06/11/99
20	R Kalenka	Glen Cove, NY	05/14/96	S Lichtenauer	Matinecock Pt., NY	28	06/11/99
22	W Woodroffe Sr.	Jamaica Bay, NY	07/07/96	I Tosic	Manhattan Beach, NY	36	06/12/99
20	J Krauss	Monmouth Beach, NJ	11/29/98	S Whyte	Weymouth, MA	06/12/99	
23	A Anderson	Block Island, RI	06/20/98	D Frederick	Island Beach St. Pk., NJ	30	06/12/99
24	J Lutz	Cape May, NJ	10/17/98	G Oleska	Pooles Is., MD	24	06/12/99
19	H Sweet	Barrington, RI	07/12/98	T Cartier	Barrington, RI	26	06/12/99
43	A Anderson	Montauk Pt., NY	06/30/97	G Clark	Mouth of Delaware Bay, NJ		06/12/99
24	R Conklin	Monches Inlet, NY	10/20/98	J Schell	Monches Inlet, NY	25	06/12/99
19	S North	Bay Head, NJ	11/28/98	A Matthews	Pt. Jefferson, NY	20	06/12/99
23	R Conklin	Monches Inlet, NY	09/03/98	R Jorgensen	E. Monches, NY	28	06/12/99
29	G Kerkhan	Cape Neddick, ME	09/15/98	T Pollock	Rye, NH	29	06/12/99
26	L Gonnello	Breezy Pt., NY	07/30/98	P Mecane	Old Orchard Lt., NY	30	06/12/99
27	M Lucey	Middletown, RI	08/04/98	C Silva	Middletown, RI	27	06/12/99
27	T Marburger	Shinnecock Inlet, NY	06/28/98	M Murray	Shinnecock Bay, NY	30	06/12/99
16	E Petronio Jr.	Pt. Judith, RI	06/29/98	B Mottl	Pt. Judith, RI	19	06/12/99
24	D Sowerby	York Harbor, ME	05/20/99	D Pierce	Saco, ME	24	06/12/99
25	N Fionilo Jr.	Flynn's Knoll, NJ	11/03/97	L DiMartini	Hempstead Hbr., NY	38	06/12/99
20	R Conklin	Monches Inlet, NY	06/18/98	G Edwards	Moriches Inlet, NY	24	06/13/99
22	JC Wright	Ches. Bay Brdg. Tun., VA	04/21/98	J Spinner Jr.	Ches. Bay Brdg. Tun., VA	22	06/13/99
27	R Vogel	Ambrose Channel, NJ	07/07/98	R Halbert	Flynn's Knoll, NJ		06/13/99
20	B Baker	Nauset Inlet, MA	09/18/96	V Maldonado	Throg's Neck Brdg., NY	25	06/13/99
21	C Carroll Jr.	Island Beach St. Pk., NJ	05/17/98	J Villan	Island Beach St. Pk., NJ	23	06/13/99
16	T Marburger	Northport, NY	05/16/99	B Little	Baiting Hollow, NY		6/13/99
22	R Conklin	Moriches Inlet, NY	10/20/98	G Edwards	Moriches Inlet, NY	23	06/13/99
19	C Wilcox III	Moriches Inlet, NY	11/05/98	K Rutchie	Monomoy Is., MA	21	06/14/99
	R Guttadauro	Little Neck Bay, NY	04/08/99	J Marsh	Brunswick, ME		06/14/99
25	R Templeton	Charlestown, RI	10/16/98	D Kirsch	Beverly, MA	26	06/14/99
22	J McAfee	Quick's Hole, MA	07/17/98	F Guethner	Quick's Hole, MA		06/14/99
21	L Vosseller	Loveladies, NJ	11/08/98	R Tessicini	Monomoy Is., MA		06/14/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
20	J Ragusa Sr.	Ocean Beach, NY	11/18/97	B Lavallee	Blackstone R., RI		06/14/99
19	R Pearson Jr.	Croton Bay, NY	04/02/99	W Box	139th St., East R., NY		06/15/99
31	J Foti	Sandy Hook, NJ	10/22/95	R Stasinis	Greenwich Pt., NY		06/15/99
18	GS Gray	Charlestown, RI	05/19/97	P Fallon	Kennebec R., ME	23	06/15/99
36	M Klaus	Delaware Bay, NJ	10/27/98	C Toffolo	Troy, NY		06/15/99
22	P Lowcher	Sea Bright, NJ	04/15/98	R Metel	Moriches Inlet, NY	24	06/15/99
21	GR Gray	Charlestown, RI	10/31/98	J McDermott	Atlantic Beach Brdg., NY	22	06/15/99
26	G Ruest	Quick's Hole, MA	07/13/98	A Tappeiner	Great Egg Harbor Bay, NJ	28	06/15/99
25	W Marker	E. Rockaway Inlet, NY	10/29/98	J McDermott	Atlantic Beach Brdg., NY	26	06/15/99
26	J Dickinson	Susquehanna Flats, MD	04/19/99	P Johannesen	Marine Pkwy Brdg., NY	27	06/15/99
18	T Matraxia	VA Beach, VA	01/16/99	N Melanson	Ipswich, MA	18	06/15/99
20	R Leja	Bridgeport, CT	11/07/98	P Anderson	Nantucket, MA		06/15/99
26	R Templeton	Block Is., RI	09/28/98	N Vitullo	Block Is., RI		06/15/99
17	P Chowansky	Sea Girt, NJ	11/21/98	K Kaefer	Merrimack R., MA		06/15/99
17	A LoCascio	Manhasset Bay, NY	11/16/98	R Nystrom	Stratford, CT	17	06/16/99
22	A Schweithelm	Northport, NY	07/24/98	D Avondolio	Nissequogue R., NY	26	06/16/99
23	J Ragusa Jr.	Ocean Beach, NY	11/04/98	E Rudy	Plymouth Harbor, MA		06/16/99
30	H Sweet	Block Is., RI	06/23/98	A Elson	Block Is., RI	32	06/16/99
19	J Mulkerin	Port Monmouth, NJ	10/09/97	E Moon	Loveladies, NJ	20	06/16/99
26	L Gonnello	Ambrose Chan., NY	06/24/98	R Halbert	Flynn's Knoll, NJ	27	06/16/99
25	A Visentin	Shinnecock Bay, NY	05/16/99	P Zimmerman	Shinnecock Bay, NY	25	06/17/99
25	R Grobarz	Shrewsbury R., NJ	05/23/99	J Gibbons	Sea Bright, NJ	25	06/17/99
15	R Leeds	Ocean City, NJ	11/11/94	R Massey	Mays Landing, NJ	26	06/17/99
23	A Piszczatowski	Glen Cove, NY	09/24/98	T Rafford	Georgetown, ME	24	06/17/99
21	J Dickinson	Susquehanna Flats, MD	04/20/99	D Kadar	South R., MD	22	06/18/99
22	W Woodroffe Sr.	Riis Park, NY	10/19/98	W Perlman	Rockaway, NY	22	06/18/99
17	A Anderson	Thames R., CT	11/28/98	A Duchesne	Norwich, CT	17	06/18/99
21	W Perlman	Atlantic Beach, NY	07/10/98	C Leonard	Pt. Pleasant Canal, NJ	22	06/18/99
18	H June	Nissequogue R., NY	10/24/97	R Lovenduski	Loveladies, NJ	22	06/18/99
18	T Shaheen	Raritan Bay, NJ	05/31/96	J Peldunas	Flynn's Knoll, NJ	27	06/18/99
18	P Chowanski	Sea Girt, NJ	11/18/97	F Hartmann	Sandy Hook, NJ	20	06/18/99
26	R Nystrom	Stratford, CT	10/25/95	E Puleo	Cold Spring Hbr., NY	33	06/18/99
26	A LoCascio	Sands Pt., NY	06/11/98	F Bowers	Middle Gr., L.I. Sound	27	06/18/99
34	A Anderson	Montauk Pt., NY	10/15/97	J Contraction	Great Kills, NY	38	06/18/99
21	L Fitzgerald	Sandy Hook, NJ	10/05/94	F Adams	Sandy Hook, NJ	28	06/19/99
23	A LoCascio	Manhasset Bay, NY	05/03/98	F Laskowski	Fairfield, CT	25	06/19/99
24	T Marburger	Shinnecock Inlet, NY	06/02/98	J Delano	Shinnecock Inlet, NY	28	06/19/99
27	M Berger	Rockaway, NY	11/21/98	B Feuring	Flynn's Knoll, NJ		06/19/99
22	A Anderson	Thames R., CT	03/21/99	S Lech	Biddeford, ME	23	06/19/99
23	A Anderson	Charlestown, RI	10/14/98	M Blodgett	Saco, ME	24	06/19/99
23	A Anderson	Thames R., CT	03/13/99	D Tefis	New London, CT	25	06/19/99
32	S Fries	Montauk, NY	07/29/97	A Ristori	Shrewsbury Rocks, NJ	35	06/19/99
22	G Nigro	Sandy Hook, NJ	11/16/96	R Kane	Montauk Pt., NY	27	06/20/99
21	T Marburger	Northport, NY	05/18/97	D DiBenedetto	Manhasset Bay, NY	26	06/20/99
15	A Drew Jr.	Charlestown, RI	05/23/98	T Martin	Watch Hill, RI	16	06/20/99
22	W Kobel Jr.	Northport, NY	03/18/99	M Scandel	E. Setauket, NY		06/20/99
23	A D'Amato	2 mi E Cape May, NJ	12/26/98	E Meyers	Fishers Is., NY		06/20/99
27	A Anderson	Block Is., RI	07/08/98	N Collins	S. Dartmouth, MA	28	06/20/99
18	P Grippo	2nd Wantagh Brdg., NY	06/30/97	A Tedone	Meadowbrook Brdg., NY	24	06/20/99
24	A Anderson	Block Is., RI	05/26/99	E Grohsgar	Block Is., RI		06/20/99
28	W Firth	Quick's Hole, MA	06/11/99	K Picciandra	Quick's Hole, MA		06/20/99
25	N Fiorillo Jr.	Deal, NJ	07/29/98	B Yunkar	Barnegat Lt., NJ	28	06/21/99
22	A D'Amato	Cape May, NJ	11/30/98	M Whitley	Moriches Bay, NY	24	06/21/99
22	S Cannizzaro	Highlands, NJ	11/02/98	B Thurman	E of Moriches Inlet, NY		06/21/99
24	E Scola	Hudson R., NY	07/18/98	A Ristori	Hudson R., NY	25	06/22/99
13	A Anderson	Old Lyme, CT	05/03/98	R Marzo	Pt. Pleasant Canal, NJ	18	06/22/99
24	G Ottavio	Cape May, NJ	11/21/97	N Mazzei	Hempstead Hbr., NY		06/22/99
21	R Ries	Cold Spring Harbor, NY	06/28/98	B Basta	Cold Spring Harbor, NY	24	06/22/99
25	T Marburger	Shinnecock Inlet, NY	06/01/99	J Delano	Shinnecock Inlet, NY	27	06/22/99
29	W Firth	Quick's Hole, MA	06/05/99	A Mirka	Quick's Hole, MA		06/23/99
15	R Ferraro	Narragansett, RI	12/04/98	J Molini	Montauk Pt., NY	23	06/23/99
30	A Piszczatowski	Glen Cove, NY	06/04/99	G Kristi	Montauk Pt., NY	31	06/23/99
25	R Spiro	Merrimack R., MA	06/15/99	W Burns	Salisbury, MA		06/23/99
24	R Vogel	Romer Shoal, NJ	07/11/98	R Leyrer	Romer Shoal, NJ	27	06/24/99
25	G Ruest	Quick's Hole, MA	10/13/98	P Phillips	Quick's Hole, MA	33	06/24/99
23	M Simmons	Barnegat Lt., NJ	10/28/97	A Gerstmann	Moriches Inlet, NY	27	06/24/99

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23	A Messina	Little Neck Bay, NY	04/06/99	B Brooks	Casco Bay, ME	25	06/24/99
25	A Anderson	Block Is., RI	11/09/98	A Collins	Cape Cod Bay, MA		06/24/99
27	S Jakubowski	Norton's Pt., NY	11/25/98	T Gloerson	Fairfield, CT	28	06/24/99
28	W Firth	Quick's Hole, MA	06/11/99	P Phillips	Quick's Hole, MA	34	06/24/99
14	B Gray	Charlestown, RI	05/14/99	F Lewie	Charlestown, RI		06/25/99
23	C Bones	Cape May, NJ	09/06/98	D Rutledge	Cape May, NJ	23	06/25/99
27	R Leja	Bridgeport, CT	10/19/98	G Anderson	Old Saybrook, CT	28	06/25/99
18	A D'Amato	Cape May Rips, NJ	04/15/97	E Nichols	Shinnecock Bay, NY	18	06/25/99
24	J Ragusa	Ocean Beach, NY	11/03/98	B Biedinger	Spring Lake, NJ		06/25/99
9	G Horvath	Trenton, NJ	06/01/99	G Bistran	Trenton, NJ	09	06/25/99
28	D Kelly	Orient Pt., NY	06/17/97	P Tolamaa	Orient Pt., NY	34	06/25/99
23	T Marburger	Shinnecock Inlet, NY	06/02/98	J Delano	Shinnecock Inlet, NY	27	06/25/99
28	S Fries	Montauk, NY	08/04/98	R Brevet	Montauk Pt., NY		06/26/99
26	L Gonnello	Sandy Hook, NJ	06/05/98	A Stellatos	Romer Shoal, NJ	28	06/26/99
23	R Grobarz	Long Branch, NJ	05/24/98	K Bruder	Long Branch, NJ	28	06/26/99
22	D Anderson	Salisbury, MA	06/23/98	W Burns	Salisbury, MA	26	06/26/99
29	S Fries	Montauk, NY	08/04/98	S Whiting	Montauk Lt., NY	30	06/26/99
30	P Bombino	Flynn's Knoll, NJ	10/23/97	F Spatola	Breezy Pt., NY	33	06/26/99
15	R Grobarz	Sandy Hook, NJ	04/30/99	N Pascucci	Newburyport, MA	18	06/26/99
21	A LoCascio	Execution Lt., NY	05/22/99	K Reilly	Plum Is., NY		06/26/99
27	L Fitzgerald	Sandy Hook, NJ	10/05/94	W Greaux	Ambrose Chan., NY	32	06/27/99
32	A LoCascio	Execution Lt., NY	06/29/97	G Matawa	New Rochelle, NY	34	06/27/99
22	A Anderson	Thames R., CT	03/21/99	M Langevin	Biddeford, ME	25	06/27/99
25	A Anderson	Block Is., RI	06/14/98	D Kershaw Jr.	Milford, CT		06/27/99
19	F Stunkel	Stamford, CT	07/06/95	P Farinella	S Greenwich Pt., CT	27	06/27/99
19	A LoCascio	Throgs Neck Brdg., NY	09/21/96	M Maniscalchi	Manhasset Bay, NY	31	06/28/99
31	A Anderson	Block Is., RI	06/15/99	J Bullock	Block Is., RI		06/28/99
34	A LoCascio	Hempstead Harbor, NY	11/01/98	M Maniscalchi	Manhasset Bay, NY	34	06/28/99
27	D Jennings	Old Orchard Lt., NY	06/10/99	N Houghton	Montauk Lt., NY		06/28/99
28	C Eckels	Old Orchard Lt., NY	05/09/99	S Sylver	Chatham Lt., MA	29	06/28/99
20	T Marburger	Shinnecock Inlet, NY	05/31/98	S Vehslage	Gardiner's Is., NY	26	06/29/99
23	K Carrigan	Rockport, MA	06/04/99	J Griffin	Newburyport, MA		06/29/99
24	P Cappuccio	Sandy Hook, NJ	06/23/99	L Sutynszky	Sandy Hook, NJ	26	06/29/99
27	L Gonnello	Sandy Hook, NJ	06/12/98	K Erksen	Statue of Liberty, NY	28	06/29/99
20	C Wilcox III	Moriches Inlet, NY	07/27/98	G Giancola	Moriches Bay, NY	22	06/29/99
24	C Kennedy	Cape May, NJ	04/11/99	P Bush	Kennebunkport, ME		06/30/99
26	W Perlman	Tin Can Grounds, NY	11/18/97	C Lehr	Rockaway Pt., NY	27	06/30/99
16	T McCandless	Jamestown, RI	10/27/96	T Hryzan	Narragansett, RI	20	06/30/99
15	N Kittredge	Essex R., MA	09/23/97	M Power	Essex R., MA		06/30/99
21	A Anderson	Thames R., CT	02/15/99	C Chase	Plum Is., MA		06/30/99
22	C Kennedy	Cape May, NJ	04/15/99	R Lawler	Rockport, MA		06/30/99
26	F Stunkel	Montauk, NY	07/31/98	V McDiarmid	Montauk Pt., NY	28	06/30/99
25	T Marburger	Shinnecock Inlet, NY	05/31/98	J Beckwith	Gardiners Bay, NY		07/01/99
23	R Leja	Bridgeport, CT	10/30/97	J Beckwith	Gardiners Bay, NY		07/01/99
20	C Carroll Jr.	Bay Head, NJ	09/09/97	G Antognoli Jr.	Pt. Pleasant Canal, NJ	22	07/01/99
22	T Marburger	Northport, NY	03/17/98	P Pedoto	Sherwood Is. Pk., CT		07/01/99
13	S Fries	Jamaica Bay, NY	07/18/98	J Downey III	E. Matunuck, RI	15	07/01/99
37	C Bassano	Tuckermuck Island, MA	07/12/98	K McKenna	Montauk, NY		07/01/99
19	W Perlman	Atlantic Beach, NY	06/03/98	D Eichin	Atlantic Beach Brdg., NY	22	07/02/99
33	D Dibblee	Esopus, NY	05/06/99	G Burkbeck	Watch Hill, RI		07/02/99
35	F Coronato	Staten Is., NY	10/31/95	W Frieden	Hingham Bay, MA	38	07/02/99
20	T Matraxia	Cape Henry, VA	01/17/99	J Turner	Cove Pt., MD	22	07/02/99
38	R Maimone	Rye, NH	06/06/99	D Gilbert	Ipswich, MA		07/03/99
26	L Gonnello	West Bank Lt., NY	07/08/97	J Careccia	Highlands, NJ		07/03/99
16	B White	Narragansett, RI	05/30/97	M Klein	Pt. Judith Pond, RI	22	07/03/99
17	P Grippo	Hauts Creek, NY	06/08/97	D Wissemann	Jones Inlet, NY		07/03/99
19	Wolfskeil	Ipswich, MA	09/26/98	K Krawczyk	Salisbury, MA		07/03/99
15	A Messina Jr.	Little Neck Bay, NY	04/27/99	A Brizio		16	07/04/99
35	R Leja	Bridgeport, CT	10/16/98	M Santich	Montauk, NY	35	07/04/99
20	F Stunkel	Eatons Pt., NY	08/19/97	R Zlokovitz	Eatons Neck, NY	28	07/04/99
27	R Wolfskeil	Keyport, NJ	05/12/99	J Huer	Cohasset, MA	29	07/04/99
24	A Anderson	Block Is., RI	06/02/98	B Lempicki	Pleasant Bay, MA	24	07/04/99
20	J Karolides	Danvers, MA	06/17/98	P Karambay	Old Saybrook, CT	21	07/04/99
37	A LoCascio	Throg's Neck Brdg., NY	05/21/99	B Tan	Sands Pt., NY	39	07/05/99
30	B Bottino	Spring Lake, NJ	06/29/99	M Burkhart	Bradley Beach, NJ	31	07/05/99
23	A Anderson	Block Is., RI	06/12/99	T Droukas	Block Is., RI	25	07/06/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
22	P Johnson Sr.	Pt. Judith, RI	07/29/98	C Hatfield	South Kingstown, RI	26	07/06/99
22	A Anderson	Thames R., CT	03/28/99	R Bauer	Bourne, MA	22	07/06/99
23	R Barbini	Davids Is., NY	10/26/96	W Yackel	Middle Gr. Lt., L.I. Sound	25	07/06/99
24	J Karolides	Beverly, MA	08/02/98	C Marquardt	Salem, MA	25	07/06/99
29	B Shillingford	Cape May Rps, NJ	11/03/97	J Garofano Jr.	The Race, L.I. Sound	31	07/06/99
26	A Anderson	Montauk Pt., NY	06/01/99	J Sacco Jr.	Montauk Pt., NY	26	07/07/99
21	JC Wright	Ches. Bay Brdg. Tun., VA	05/11/99	P Melanson	Cape Cod, MA	23	07/07/99
21	F Stunkel	Stamford, CT	11/07/96	A Lehmann	Boston, MA	28	07/07/99
20	G White	Piscataqua R., NH	09/03/98	D Reeves	Portsmouth, NH	23	07/07/99
30	C Bassano	Nantucket, MA	06/17/98	J Montu	Montauk Pt., NY	33	07/07/99
35	R Maimone	Rye, NH	06/01/99	K Kitzmiller	Popham Beach, ME	36	07/07/99
17	E Petronio Jr.	Pt. Judith, RI	06/10/98	S Dickson	Pt. Judith, RI		07/08/99
21	W Woodroffe Sr.	Ruis Pk, NY	09/05/98	L DeRicca	Riis Pk., NY		07/08/99
22	A Anderson	Block Is., RI	06/16/98	J Swift Jr.	Sandy Hook, NJ	23	07/08/99
22	T Shaheen	Sandy Hook, NJ	04/29/98	M Cavallo	Montauk, NY		07/09/99
26	F Casey	Boston, MA	06/23/99	J Hoffman	Boston, MA	26	07/09/99
24	R Spiro	Plum Island, MA	08/31/98	D Lyko	Newburyport, MA	25	07/09/99
19	F Stunkel	Stamford, CT	10/05/98	H Pham	Bridgeport, CT		07/10/99
18	R Spiro	Merrimack R., MA	06/06/99	P Rzezeczycki	Merrimack R., MA		07/10/99
21	T Matraxia	Sandy Hook, NJ	08/20/98	R Burch	E. Rockaway Inlet, NY	23	07/10/99
27	A Anderson	Montauk Pt., NY	06/24/97	B Garfield	Portland, ME	30	07/10/99
17	R Canfield	Darien, CT	05/31/97	R Kozlowski	Madison, CT	20	07/10/99
25	D Kelly	Sag Harbor, NY	05/08/99	C Smith	Little Gull Is., NY	27	07/10/99
22	R Leja	Bridgeport, CT	10/07/98	R O'Berg	Fairfield, CT		07/10/99
26	P Grippo	Montauk Pt, NY	09/03/98	J Gavencak	Montauk Pt., NY	28	07/11/99
28	T Fernera	Block Is., RI	10/13/98	G Vitullo	Block Is., RI	28	07/11/99
34	B White	Old Orchard Lt., NY	05/12/98	J Meinel	Shinnecock Bay, NY	34	07/11/99
20	W Perlman	Atlantic Beach, NY	06/19/98	D Eichn	Atlantic Beach, NY	23	07/12/99
20	R Kyker	Norwalk, CT	10/17/98	S Burnett	Waterford, CT	22	07/12/99
19	A LoCascio	Manhasset Bay, NY	09/09/95	W Getty	Breezy Pt., NY	29	07/12/99
20	D Neckerson	Nauset Inlet, MA	05/31/98	D Eichn	Atlantic Beach, NY	23	07/12/99
22	G Nigro	Sandy Hook, NJ	11/28/98	M Titterton	Jones Inlet, NY	23	07/12/99
20	R Kalenka	Shinnecock Bay, NY	06/01/97	K Kruse	Southampton, NY	29	07/12/99
27	G Cardel	Eatons Neck, NY	11/03/94	P Miller	Stamford Hbr., CT	40	07/12/99
22	M Simmons	Barnegat Lt., NJ	07/09/97	M Kulinski	Barnegat Inlet, NJ	24	07/12/99
33	D Kelly	Orient Pt., NY	09/27/96	V Coffinan	Green Pt., NY	37	07/12/99
18	D Hoxsie	Pt. Judith, RI	08/19/97	P Hagen	Pt. Judith, RI	24	07/13/99
22	D Obropta	Sandy Hook Bay, NJ	10/20/98	M Blodgett	Randolph, ME	22	07/14/99
16	E Scola	East R., NY	07/12/98	E Scola	East R., NY	17	07/14/99
25	B Finke	Stamford, CT	10/22/98	W Gosson	Martha's Vineyard, MA	31	07/14/99
25	D Alves	Barrington, RI	04/30/97	J Tentinger	Block Is., RI	32	07/14/99
24	A Anderson	Thames R., CT	01/23/99	W Antosh	Piscataqua R., NH	29	07/14/99
28	A D'Amato	Cape May, NJ	11/18/98	V McDiarmid	Montauk Pt., NY		07/14/99
24	F Casey	Boston, MA	07/10/98	J Cassel	Plum Gut, NY		07/15/99
25	S Fries	Montauk, NY	08/04/98	G Carmosin	Montauk, Pt., NY	29	07/15/99
30	A Anderson	Montauk Pt., NY	05/22/98	C Knight	Narragansett Bay, RI	31	07/15/99
26	R Nystrom	Bridgeport, CT	07/06/97	G Bobko	Stratford, CT	27	07/15/99
18	P Lowcher	Rumson, NJ	06/04/97	F Petiello Jr.	Sandy Hook, NJ	26	07/15/99
27	A Scherwethelm	Montauk, NY	10/30/98	A Maddaleni	Boston Hbr., MA	29	07/15/99
28	JC Wright	Linkhorn Bay, VA	12/19/98	C Mercure	Smith Cr., MD		07/15/99
32	H Schauer	Martha's Vineyard, MA	05/13/99	G Ernschen	Hart Is., W. L.I. Sound		07/15/99
15	D Hoxsie	Charlestown, RI	06/21/99	E Hulme	Charlestown, RI		07/16/99
32	A Elson	Block Is., RI	06/16/99	M Skorupski	Block Is., RI	34	07/16/99
19	D Sowerby	York Harbor, ME	09/07/98	Unk. Fisherman	Brunswick, ME	20	07/16/99
35	A LoCascio	Execution Lt., NY	05/31/99	S Della Bella	Clinton, CT		07/16/99
33	A Anderson	Montauk Pt., NY	05/25/98	R Cybert	Sandy Hook, NJ	35	07/17/99
22	W Hubbard	York R., ME	06/23/99	F Ricciutti	Fort McCleary, ME		07/17/99
23	B Garfield	Portland, ME	08/05/98	B Coite	Cape Neddick, ME	25	07/17/99
27	L Gonnelo	Sandy Hook, NJ	07/20/98	L Gonnelo	Flynn's Knoll, NJ	29	07/17/99
37	P Grippo	Montauk Pt., NY	07/12/99	G Grippo	Montauk Pt., NY	37	07/17/99
24	C Carroll Jr.	Mantoloking, NJ	11/08/98	Fisherman Matt	Manhasset Bay, NY		07/18/99
20	G Nigro	Sandy Hook, NJ	11/25/97	C Lemieux	Kingston, MA	21	07/18/99
21	W Perlman	Atlantic Beach, NY	06/14/97	F Menno	Montauk, NY		07/18/99
26	A Anderson	Block Is., RI	06/19/99	R Jackson	Martha's Vineyard, MA		07/19/99
24	F Coronato	Annadale, NY	11/04/98	R Jackson	Cuttyhunk Is., MA		07/19/99
27	G Ruest	Quick's Hole, MA	07/14/99	L Geuthner	Quick's Hole, MA		07/19/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
25	A D'Amato	Cape May, NJ	12/09/98	J Garant	Pasque Is., MA		07/19/99
21	B Garfield	Richmond Is., ME	08/13/98	W Crowley	Cape Elizabeth, ME		07/20/99
26	P Gaffney	Chatham, MA	05/24/98	P Busardo	Montauk, NY	27	07/20/99
22	J Daly	Seaside Hts., NJ	11/06/98	P Lajoie	Merrimack R., MA		07/21/99
21	C Kennedy	Cape May, NJ	11/28/98	S Paskin	Romer Shoal, NJ	24	07/21/99
21	L Schilling	Cape May, NJ	11/29/98	C Johnson	Rockport, MA	24	07/21/99
19	D Sowerby	York Harbor, ME	08/28/98	J Fate	Kittery, ME	21	07/21/99
25	A Anderson	Montauk Pt., NY	07/18/98	H Heylman	Stonington, CT	32	07/21/99
25	W Perlman	Atlantic Beach, NY	06/22/98	E Eichin	Atlantic Beach Brdg., NY	27	07/21/99
23	C Kennedy	Cape May, NJ	11/29/98	D Sirard	Quick's Hole, MA		07/21/99
24	R Spiro	Merrimack R., MA	07/09/99	D Conti	Salisbury, MA	24	07/22/99
21	M Vargas	Milford, CT	11/13/98	R Salzer	Naushon Is., MA		07/22/99
28	S Jakubowski	Bay Ridge, NY	05/26/99	R Brevet	Montauk, NY		07/22/99
19	L Gordon	Ches. Bay Brdg. Tun., VA	11/12/98	D Waters	N Craghill Lt., MD	21	07/22/99
16	J O'Keefe	Stratford, CT	05/05/99	K Russo	Stratford, CT		07/23/99
19	G Cirrello	Sandy Hook, NJ	07/29/96	S Withuhn	Montauk Pt., NY	24	07/23/99
20	A Young	Greenport, NY	10/24/97	B Young	Flax Pond, NY	21	07/23/99
16	G Kerkhan	Keyport, NJ	03/28/99	A Lehmann	Hampton, NH		07/23/99
26	G Blank	East R. NY	09/18/98	J AntGrullon	Manhattan, NY	29	07/24/99
36	F Heal	Staten Is., NY	05/27/99	C Leahey	Block Is., RI		07/24/99
24	R Leja	Bridgeport, CT	10/22/98	A Lehmann	Boston, MA		07/24/99
17	R Stasinios	Stamford, CT	09/20/98	R Stasinios	Stamford, CT	17	07/24/99
23	C Carroll Jr.	Island Bch. St. Pk., NJ	05/01/99	I Nataleno	Bayonne, NJ		07/25/99
26	A LoCascio	Throg's Neck Brdg., NY	12/05/98	A St.Martin	Old Saybrook, CT	29	07/26/99
24	C Kennedy	Hereford Inlet, NJ	12/06/98	R Powers	Nahant, MA	26	07/26/99
34	K Bilodeau	Race Pt., NY	08/14/97	G Anziano	Race Pt., NY	36	07/26/99
24	P Johnson Sr.	Block Is., RI	07/10/99	F Lewie	Charlestown, RI	24	07/27/99
26	K Carrigan	Rockport, MA	06/04/99	J Fallon	Rockport, MA	26	07/27/99
33	P Grippo	Montauk Pt., NY	07/12/99	F Santoriello	Montauk Pt., NY	34	07/27/99
25	F Dyer	Watch Hill, RI	07/03/99	R Stuart	Pawcatuck R., RI	26	07/27/99
19	R Gomolson	Strathmere, NJ	11/11/98	R Bestenheider	Sunken Meadow St. Pk., NY	21	07/27/99
28	S Fnes	Montauk, NY	08/04/98	L Gonnello	Breezy Pt., NY	29	07/27/99
26	B Bottino	Spring Lake, NJ	07/03/99	A Strassburger	Bradley Beach, NJ		07/28/99
31	M Strober	East R., NYC	11/17/98	T Tapp	East R., NY	31	07/28/99
24	W Perlman	Atlantic Bch, NY	05/20/99	A DuJat	Rockaway Inlet, NY		07/28/99
27	R Kyker	Norwalk, CT	07/18/98	D Walwer	Cape Cod Bay, MA	32	07/28/99
35	A LoCascio	Execution Lt., NY	05/22/99	T Thompson	Niantic, CT	35	07/28/99
28	C Kennedy	Cape May, NJ	11/13/98	P Regula	Shrewsbury Rocks, NJ	28	07/28/99
20	J Della Porta	Winthrop, MA	05/20/99	A Lehmann	Boston, MA		07/28/99
35	M Murphy	Montauk, NY	07/26/99	D O'Connell	Montauk, NY	35	07/29/99
26	A Anderson	Block Is., RI	05/17/98	P Humelfarb	Montauk, NY	29	07/29/99
24	S North	Spring Lake, NJ	11/21/98	R Sasso	Mouth of CT R., CT	25	07/29/99
25	F Casey	Boston, MA	06/04/99	H Poole	York, ME	26	07/30/99
39	A LoCascio	City Is., NY	06/19/99	G Faucher	Westbrook, CT	40	07/30/99
26	R Nystrom	Stratford, CT	09/19/98	W Putnam	Chatham Lt., MA	29	07/30/99
22	R Conklin	Bridgeport, CT	11/08/98	S Osella	Watch Hill Lt., RI	23	07/30/99
22	P Hierholzer	Offshr., Sea Isle City, NJ	11/26/97	S Kay	Somerset, MA	22	07/30/99
27	A Schweithelm	Montauk, NY	10/30/98	W Kaprielian	Montauk, NY	30	07/30/99
34	B Shillingford	DE Bay, NJ	11/10/98	G Coombs	Clinton, CT	36	07/30/99
27	L Gonnello	Old Orchard Light, NY	05/18/99	W Kaprielian	Montauk, NY	30	07/30/99
30	C Maxon	Boston, MA	07/21/98	A Lehmann	Boston, MA	33	07/30/99
17	T McCandless	Jamestown, RI	10/27/96	A Lehmann	Boston, MA	22	07/30/99
21	A LoCascio	Manhasset Bay, NY	10/27/96	D Stone Sr.	Merrimack R., MA	26	07/30/99
24	C Maxon	Boston, MA	09/13/98	E Purugganan	Boston, MA	27	07/31/99
17	R Stasinios	Stamford, CT	07/18/99	R Stasinios	Stamford, Ct	17	07/31/99
39	R Maimone	Rye, NH	09/28/98	G Curner	Rye, NH	40	07/31/99
15	R Conklin	Norwalk, CT	10/07/98	S Tardella	Norwalk, CT	18	08/01/99
	H Hune	Nissequoque R., NY	06/20/96	R Bestenheider	Smithtown Bay, NY		08/01/99
26	C Silva	Middletown, RI	05/14/99	M Lucey	Middletown, RI	27	08/01/99
17	E Petronio Jr.	Pt. Judith, RI	06/10/98	M Lemieux	Westport, MA		08/01/99
13	S Giaccone	Jones Inlet, NY	05/31/98	R Acerno	Jones Beach, NY	14	08/02/99
21	W Brett	Duxbury, MA	09/18/98	G Kindamo	Marshfield, MA	22	08/03/99
	E Petronio Jr.	Pt. Judith, RI	08/07/98	R Hojniski	Matunuck, RI		08/03/99
24	A Anderson	Block Is., RI	06/27/99	C DeCrescenzo	E. Rockaway Inlet, NY		08/03/99
22	G Cardel	Eatons Neck, NY	11/22/93	B Mildner	Middle Gr., L.I. Sound	33	08/03/99
17	R Grobarz	Sandy Hook, NJ	04/27/97	C DeCrescenzo	E. Rockaway Inlet, NY		08/03/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
22	R Stroz	Monmouth Beach, NJ	11/02/98	A Lehmann	Boston, MA	24	08/03/99
23	F Urban	Verrazano Brdg., NY	05/24/88	C DeCrescenzo	E. Rockaway Inlet, NY		08/03/99
17	JC Wright	Ches. Bay Brdg. Tun., VA	04/03/97	B Donaldson	Calvert Cliffs St. Pk., MD	24	08/05/99
27	C Maxon	Boston, MA	08/04/98	S Hunkeler	Boston, MA	29	08/07/99
18	A Anderson	Thames R., CT	02/15/99	S Connors	Gloucester, MA	22	08/08/99
25	A Anderson	Block Is., RI	06/08/98	D DiMaio	Lynn, MA	28	08/08/99
33	A Anderson	Montauk Pt., NY	05/26/98	J Tompkins	Martha's Vineyard, MA		08/08/99
16	A Messina	Little Neck Bay, NY	04/19/99	S Carrier	Portland, ME	19	08/08/99
13	A Perednia	East R., NYC	10/17/98	E Viera	Soundview Pk., NY	17	08/08/99
29	J Beaver	Sandy Hook, NJ	06/24/98	T Paccone	Hart Is., NY	30	08/08/99
27	A Anderson	Block Is., RI	11/08/98	P Davidian	Gloucester, MA	28	08/09/99
24	G Ministeri	Cape Cod Bay, MA	05/31/99	P Domenico	S. Wellfleet, MA		08/09/99
24	B Shillingford	Strathmere, NJ	05/02/99	R Klein	Block Is. Sound, RI	26	08/09/99
23	G Kerkhan	Sandy Hook, NJ	05/25/99	S MacNeil	Cape Cod Canal, MA	24	08/10/99
15	B Gray	Charlestown, RI	05/14/99	R DiPietro Sr.	Providence, RI	18	08/10/99
22	G Kerkhan	Mantoloking, NJ	11/08/98	B Sadler	Tin Can Grounds, NY	25	08/10/99
18	G Horvath	Seaside Pk., NJ	11/28/98	H Dyer Jr.	Thames R., CT		08/10/99
24	W Marker	East Rockaway Inlet, NY	11/30/98	R Coppola	Plymouth, MA	26	08/11/99
35	S Jakubowski	Raritan Bay, NY	05/21/99	Unk. Fisherman	E of Nantucket, MA	37	08/11/99
21	P Kozak	Newburgh, NY	05/23/99	J Musco	Eatons Neck, NY	23	08/11/99
24	L Goncello	Shrewsbury Rocks, NJ	04/25/99	J Mazzarini	Boston, MA	24	08/12/99
25	R Spiro	Merrimack R., MA	08/07/99	S Maguire	Merrimack R., MA	25	08/12/99
28	P Grnppo	Montauk Pt., NY	09/19/98	W Rahm	Fishers Is., NY	28	08/13/99
24	P Chowansky	Sea Girt, NJ	12/04/98	D Hall	Barnstable, MA	28	08/14/99
16	A Perednia	East R., NYC	04/04/99	R O'Leary	Newburyport, MA	20	08/15/99
30	R Kyker	Norwalk, CT	06/19/98	B Sayles	Clinton, CT	30	08/15/99
24	A Anderson	Block Is., RI	06/12/98	J Brownell	Newport, RI		08/15/99
20	R Pearson Jr.	Croton Bay, NY	04/02/99	H Rosado	Throgs Neck Brdg., NY	21	08/15/99
19	H Sweet	Warren, RI	06/14/95	A Gordon	Rockaway, NY	37	08/15/99
28	W Perlman	Sandy Hook, NJ	11/01/98	J Sawicki	Orient Pt., NY	30	08/15/99
19	R Conklin	Moriches Inlet, NY	10/12/98	G Grothmann	Shinnecock Bay, NY		08/15/99
34	H Alimo	Cape May Inlet, NJ	06/09/98	A Petsching	Block Is., RI	37	08/15/99
25	A Anderson	Block Is., RI	06/17/99	T Qualls	Montauk, NY	27	08/16/99
21	T Shaheen	Rumson, NJ	06/13/98	W Sadler	Ambrose Chan., NY	26	08/16/99
24	T Matraxia	Sandy Hook, NJ	11/18/98	F Carolan	Boston, MA	26	08/16/99
23	R Spiro	Merrimack R., MA	07/19/99	B Greene	Newburyport, MA		08/17/99
29	S Jakubowski	Raritan Reach, NJ	05/18/99	N Vitullo	Block Is., RI		08/17/99
20	R Kyker	Westport, CT	08/09/99	N Galella	Westport, CT		08/17/99
32	S Jakubowski	Raritan Bay, NY	05/06/99	M Field	Watch Hill, RI	32	08/17/99
30	T Marburger	Shinnecock Inlet, NY	06/14/98	W Powell	Montauk, NY		08/18/99
31	M Strucich	Raritan Bay, NJ	05/10/99	M Pasquale	Portsmouth, NH		08/18/99
22	C Carroll Jr.	Island Bch. St. Pk., NJ	05/01/99	W Essex III	Small Pt. Harbor, ME	25	08/19/99
27	R Leja	Bridgeport, CT	06/06/98	E Nedavaska	Housatonic R., CT	32	08/19/99
15	A Anderson	Thames R., CT	03/13/99	R Medeiros	Old Orchard Bch., ME		08/19/99
21	L Richards	Atlantic Beach, NY	05/16/98	S Withuhn	Montauk, NY	23	08/20/99
28	H Schauer	Martha's Vineyard, MA	05/05/99	P McCauley	Boston, MA	29	08/20/99
34	A LoCaseio	Hart Is., NY	05/29/99	R McVickar	Monomoy Is., MA	34	08/20/99
17	P Chowansky	Sea Girt, NJ	12/02/98	T Tero	Wellfleet, MA	19	08/21/99
27	V Kelly	Deal, NJ	07/31/99	S Patterson	Monmouth Beach, NJ		08/21/99
20	B Garfield	Portland, ME	07/28/99	R Vehslage	Cape Elizabeth, ME	21	08/21/99
41	R Maimone	Rye, NH	07/02/99	A Locke	Wallis Sands St. Pk., NH	42	08/22/99
38	A Anderson	Thames R., CT	03/13/99	D Lenling	Sow & Pigs Reef, MA		08/22/99
18	G Nigro	Sandy Hook, NJ	11/26/97	R Ruckert	Watch Hill, RI	20	08/22/99
38	A Anderson	Block Is., RI	07/08/98	D Buckford	Block Is., RI		08/23/99
28	M Favale	Hull, MA	08/14/99	J Dinga	Hull, MA	28	08/23/99
18	Piszczatowski	Glen Cove, NY	06/22/98	S Giacco	Huntington, NY	22	08/24/99
28	A Anderson	Block Is., RI	06/07/99	J Okie	Block Is., RI		08/24/99
30	B Shillingford	Delaware Bay, NJ	11/09/98	C DeCrescenzo	Rockaway jetty, NY	30	08/24/99
19	F Stunkel	Stamford, CT	08/01/99	B Stunkel	Darlen, CT	19	08/24/99
20	T Vogel	Boston, MA	06/10/98	A Lehmann	Boston, MA	21	08/24/99
36	G Ministeri	Cape Cod Bay, MA	06/18/99	T Silva	Wellfleet, MA	36	08/25/99
19	A Anderson	Galilee, RI	10/28/98	P Falotico	Manasquan R., NJ	20	08/25/99
27	G Ruest	Quick's Hole, MA	07/14/99	J Coyne	Cuttyhunk Is., MA	27	08/26/99
28	G Ministeri	Cape Cod Bay, MA	06/26/99	D Butler	Sandwich, MA	28	08/27/99
15	D Pardy	Old Lyme, CT	04/30/98	T Gendreau	Groton, CT	20	08/28/99
38	G Kerkhan	Cape Neddick, ME	09/17/98	A Artimovich	Newburyport, MA	42	08/29/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
22	P Chowansky	Sea Girt, NJ	06/09/99	J Angelillo	Sandy Hook, NJ		08/29/99
31	S Fries	Montauk, NY	08/04/98	S Pietruska	Vineyard Sound, MA	33	08/29/99
15	A Schweithelm	Asharoken, NY	04/20/96	E Harris III	Old Greenwich, CT	22	08/29/99
23	S Brodsky	Rockaway Reef, NY	12/06/98	J Popko	Provincetown, MA	25	09/01/99
26	R Conklin	Moriches Inlet, NY	09/18/98	H Denis	Moriches Inlet, NY	30	09/01/99
33	T Galletta	Sandy Hook, NJ	05/28/97	J Crawford	Nauset Inlet, MA	38	09/01/99
32	D Perpall	Chatham, MA	05/24/99	D Cramer	Chatham, MA	33	09/02/99
36	G Blank	Esopus, NY	05/12/99	P Bettencourt	Cape Cod Canal, MA		09/02/99
29	W Marker	Atlantic Beach, NY	10/31/98	T Charest	Pt. Judith, RI	30	09/02/99
27	D Kelly	Sag Harbor, NY	05/20/98	J Skowronski	Milford, CT	30	09/03/99
22	R Kyker	Westport, CT	09/25/98	B Klatt	Plum Gut, NY	27	09/03/99
22	T Marburger	Shinnecock Inlet, NY	07/11/98	L DeRico	Montauk, NY	27	09/04/99
24	W Brett	Charlestown, RI	11/11/97	N Blumenthal	Old Lyme, CT	28	09/04/99
18	A Anderson	Galilee, RI	10/31/98	J Robillard	Charlestown, RI	19	09/05/99
32	A Anderson	Montauk Pt., NY	06/01/99	C Behney	Cutumb Reef, RI	32	09/07/99
32	A Anderson	Block Island, RI	05/24/98	J Norgeot	South Orleans, MA	33	09/08/99
28	D Kelly	Orient Pt., NY	09/02/98	J Celentano	Orient Pt., NY	32	09/08/99
36	R Kyker	Norwalk, CT	07/18/98	F Stunkel	Norwalk, CT	36	09/09/99
18	R Allen	VA Beach, VA	12/20/97	J McConnell	Choptank R., MD	23	09/09/99
31	C Kennedy	Cape May, NJ	04/15/99	T Davis	Bourne, MA		09/09/99
21	T Walker	Stratford, CT	05/05/98	R Capobianco	Duxbury Bay, MA	23	09/09/99
20	J Della Porta	Swampscott, MA	06/05/99	T Latauskas	Salem, MA	21	09/10/99
26	A Anderson	Block Is., RI	06/02/98	P Adamiszyn	Jamaica Bay, NY	28	09/10/99
21	W Marker	East Rockaway Inlet, NY	06/12/99	L Clement	Atlantic Beach, NY	24	09/10/99
24	J Leonard	Narragansett Bay, RI	08/01/99	S Kindness	Newport, RI	27	09/10/99
32	M Murphy	Montauk, NY	11/22/98	S Withuhn	Montauk, NY	33	09/11/99
26	W Perlman	Atlantic Beach, NY	06/06/99	W Marker	Atlantic Beach, NY	29	09/12/99
19	D Adams	Aberdeen, MD	04/18/98	D Peed	Eagle Harbor, MD		09/13/99
27	T Matraxia	Flynn's Knoll, NJ	05/22/99	E Brachman	Montauk, NY	29	09/13/99
23	S Kellner	Mattituck, NY	10/27/98	R Nystrom	Devon, CT	26	09/14/99
29	R Leja	Bridgeport, CT	10/01/98	N Zerella	Stratford, CT	32	09/15/99
17	W Terrill	Provincetown, MA	10/08/98	J Barros	East R., NY	20	09/15/99
22	T Marburger	Shinnecock Inlet, NY	06/18/96	H Melchiona	Montauk Pt., NY	32	09/15/99
19	J Dickinson	Susquehanna Flats, MD	04/16/99	C Jones	Fishing Bay, MD		09/15/99
24	R Kyker	Norwalk, CT	05/02/97	G DiScola Jr.	Norwalk, CT	28	09/15/99
24	J Angelini	Bradley Beach, NJ	11/01/98	C Montanari	Cape Cod Canal, MA		09/15/99
25	Piszczatowski	Glen Cove, NY	10/04/98	A LoCascio	Larchmont, NY	26	09/17/99
24	J Della Porta	Swampscott, MA	08/01/98	R Lomas	Westport, MA	26	09/18/99
24	R Bergeron	Plymouth, MA	07/10/99	T McNally II	Plymouth, MA	26	09/18/99
27	W Brett	Provincetown, MA	06/12/99	L Barlow	Highland Lt., MA		09/18/99
23	M Simmons	Barneget Lt., NJ	06/22/99	A Hruska	Island Beach St. Pk., NJ		09/19/99
34	R Maimone	Rye, NH	07/02/99	G Doiron	Marblehead, MA	34	09/19/99
18	R Conklin	Moriches Inlet, NY	07/09/98	R Frey	Moriches Bay, NY	22	09/19/99
16	GS Gray	Charlestown, RI	06/09/95	B Wazer	Stonington, CT	22	09/19/99
33	C Wilcox III	Moriches Inlet, NY	10/15/98	C Wilcox III	Moriches Inlet, NY	34	09/19/99
15	J Leather	Eastham, MA	10/06/98	J Beck	Wellfleet, MA		09/20/99
28	J Silva	Barrington, RI	05/09/99	W Udell	Moriches Inlet, NY	30	09/20/99
25	J Schell	Moriches Inlet, NY	06/12/99	C Schuler	Shinnecock Inlet, NY		09/20/99
27	L Gonnello	Breezy Pt., NY	07/27/99	B Sadler	Tin Can Grounds, NY	28	09/20/99
17	P Grippo	Wantagh, NY	07/22/99	K Sager	Point Lookout, NY		09/21/99
27	D Dibblee	Esopus, NY	05/04/99	T Ronan	Martha's Vineyard, MA	32	09/22/99
21	T Shaheen	Sandy Hook, NJ	08/31/96	A Boris	Montauk, NY	32	09/22/99
15	J Silva	Sea Bright, NJ	06/16/98	J Abrams	Shrewsbury R., NJ	24	09/23/99
42	A LoCascio	Hart Is., NY	05/29/99	J Murphy Jr.	Watch Hill, RI	45	09/25/99
27	L Gonnello	Flynn's Knoll, NJ	06/02/99	W Kapnelian	Montauk, NY	28	09/25/99
	N Fiorillo Jr.	Navesink R., NJ	04/11/98	R Foss	Westbrook, CT	26	09/25/99
22	H Sweet	Quick's Hole, MA	08/09/98	J Place	Westerly, RI	23	09/25/99
20	P Grippo	Wantagh, NY	07/14/99	A Fulton III	Freeport, NY	22	09/25/99
33	R Maimone	Rye, NH	08/09/99	S Magnuson	Manchester, MA		09/25/99
24	W Perlman	Atlantic Beach, NY	07/26/97	F Canosa	Rockaway Inlet, NY	31	09/25/99
41	N Eckert	Sandy Hook, NJ	10/20/97	J Timbers	Montauk Pt., NY	41	09/25/99
28	P Grippo	Montauk Pt., NY	07/12/99	J Lutsky	Montauk, NY		09/25/99
22	I Mittlemark	Jones Inlet, NY	06/13/99	J Stasio	Jones Inlet, NY	23	09/26/99
16	A Anderson	Westport River, MA	04/29/99	J Corliss	Gloucester, MA	17	09/26/99
29	S Fries	Montauk, NY	10/13/97	J DeMaio	Montauk, NY		09/26/99
23	A Anderson	Montauk Pt., NY	05/22/98	J Drum	Sandwich, MA		09/26/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
35	A Anderson	Block Is., RI	11/09/98	R McMullen	Montauk, NY		09/26/99
20	R Nystrom	Bridgeport, CT	07/05/97	T Hodun	Devon, CT	24	09/27/99
20	G Kerkhan	Mantoloking, NJ	12/20/98	S Ciaramitaro	Gloucester, MA	25	09/27/99
20	P Grippo	Haunts Cr., L.L., NY	08/19/99	B Heggen	Sandy Hook, NJ	22	09/28/99
16	GR Gray	Charlestown, RI	06/04/99	J Wolf	Quonochontaug, RI		09/28/99
25	M Klause	Mays Landing, NJ	05/08/96	B Gallo	Montauk, NY	33	09/28/99
40	G White	Piscataqua R., NH	08/02/98	R Mamone	Rye, NH	41	09/29/99
21	T Rinaldi	Duck Pond Pt., NY	05/15/99	P Redlund	Provincetown, MA	22	09/29/99
29	N Auriti	Old Orchard Lt., NY	06/01/97	F Cleary	S Montauk Pt., NY	35	09/29/99
18	R Conklin	Moriches Inlet, NY	07/29/99	J Flynn	Moriches Bay, NY	20	09/29/99
31	A Anderson	Montauk Pt., NY	10/11/97	B Clark	Charlestown, RI	34	09/29/99
22	F Stunkel	Stamford, CT	09/06/97	G Cowen Jr.	Oyster Bay, NY	32	09/29/99
20	C Carroll Jr.	Sea Bright, NJ	07/03/99	P Goodhue	Shrewsbury R., NJ		09/30/99
16	G Kerkhan	Mantoloking, NJ	11/29/98	R Wright	Stony Brook, NY		09/30/99
20	R Nystrom	Stratford, CT	08/02/98	R Leja	Bridgeport, CT	24	10/02/99
39	R Maimone	Rye, NH	06/10/99	D Horton	Sandwich, MA	39	10/03/99
19	D Hoxsie	Charlestown, RI	06/13/98	B Forget	Charlestown, RI		10/03/99
30	P Grippo	Montauk Pt., NY	07/12/99	P Jakits	Montauk, NY		10/03/99
16	J Karolides	Danvers, MA	08/08/96	D Grau	Moriches Inlet, NY	24	10/05/99
12	T Walker	Stratford, CT	05/05/98	R Potleay	Stratford, CT	18	10/05/99
18	H Sweet	Warren, RI	10/21/98	G Andrade	Warren, RI	20	10/05/99
32	A LoCascio	Execution Lt., NY	05/24/98	E Skinner	Horton's Pt., NY	33	10/06/99
25	A D'Amato	Cape May, NJ	11/18/98	B Leer	Gaspee Pt., RI	28	10/06/99
33	A Anderson	Montauk Pt., NY	10/02/96	A Perednia	East R., NYC	36	10/07/99
24	T Marburger	Shinnecock Inlet, NY	05/31/98	J Grob	Moriches Inlet, NY	30	10/07/99
17	A LoCascio	Little Neck Bay, NY	02/28/98	G Sinto	Long Beach, NY	22	10/08/99
21	W Brett	Marshfield, MA	06/16/96	H Lynch Jr.	James R., VA	26	10/08/99
19	R Kyker	Westport, CT	07/29/99	R Yagid	Sprite Is., L.I. Sound		10/08/99
15	S North	Spring Lake, NJ	11/21/98	W Nolan	Narragansett, RI	19	10/08/99
24	G Kerkhan	Provincetown, MA	10/03/98	N Field Jr.	Cape Cod Canal, MA	28	10/08/99
23	P Grippo	Merrick Bay, NY	09/18/99	L Clement	Atlantic Beach, NY	24	10/09/99
18	P Bonneau	Cape Cod Canal, MA	06/28/97	A Pohlman	Long Branch, NJ	24	10/09/99
21	G Drago	Montauk Pt., NY	07/26/97	T D'Anna	Sandy Hook, NJ	28	10/09/99
18	T Marburger	Northport, NY	05/12/96	W Yackel	Wading R., NY	30	10/09/99
32	A Elson	Block Is., RI	10/10/97	W Nerney	Block Is., RI		10/10/99
23	C Silva	Jamestown, RI	08/04/99	D Duffy	Westerly, RI		10/10/99
25	B Quick	Barnegat Lt., NJ	11/30/98	R Rahner	Montauk, NY	26	10/10/99
17	P Grippo	Jones Inlet, NY	11/19/97	J Massci	Pawtucket, RI	20	10/10/99
19	A Schweithelm	Northport, NY	04/18/98	W Taylor	Great Egg Hbr Bay, NJ		10/10/99
24	R Conklin	Moriches Inlet, NY	10/23/98	R Mihalko	Moriches Bay, NY	29	10/10/99
25	L Gonnello	Ambrose Chan., NY	07/15/98	G Marini	Raritan Bay, NY		10/10/99
24	C Silva	Middletown, RI	08/02/99	M DeSouto	Somerset, MA	26	10/10/99
19	D Obropta	Island Beach St. Pk., NJ	10/24/98	J Gibbons	Navesink R., NJ	20	10/11/99
22	A Schweithelm	Montauk, NY	07/10/98	B Butler	Stratford, CT	24	10/11/99
27	A Anderson	Montauk Pt., NY	05/30/98	M Brasile	Hackensack R., NJ	33	10/11/99
26	G Ruest	Quick's Hole, MA	09/29/98	D Petersen	Pt. Pleasant, NJ	28	10/11/99
30	G Blank	East R., NYC	11/15/98	J Consoli	East R., NYC	31	10/11/99
20	R Grobarz	Sandy Hook, NJ	09/28/97	J Stimax	Earle Pier, NJ	29	10/11/99
21	B White	Wakefield, RI	05/27/99	V Lucius	Sandy Hook, NJ		10/13/99
15	C Wilcox III	Peconic R., NY	04/22/99	B Berg	Amagansett, NY	18	10/13/99
20	W Terrill	Nantucket, MA	06/21/98	J Mozden	Arthur Kill, NY	22	10/14/99
20	A Anderson	Thames R., CT	03/21/99	M Tummerman	Mashpee, MA	22	10/14/99
22	T Marburger	Northport, NY	02/21/99	P Dennin	Eatons Neck, NY	24	10/14/99
16	G Horvath	Seaside Heights, NJ	12/05/98	G Grosselfinger	Fire Is., NY		10/15/99
21	P Grippo	3rd Wantagh Bldg., NY	07/21/98	F Petillo Jr.	Sandy Hook, NJ	25	10/15/99
25	A Anderson	Block Is., RI	08/21/96	B Moore	Moriches Inlet, NY		10/15/99
22	R Kyker	Westport, CT	08/27/98	K Sparks	Stony Brook, NY	27	10/15/99
27	S Keiper	Indian R., DE	10/17/99	B Dickenson	Indian R. Inlet, DE	29	10/15/99
19	T Marburger	Northport, NY	04/20/99	L Krause	City Is., NY	24	10/15/99
28	S Boulmetis	Flynn's Knoll, NJ	07/28/98	S Kelly	Lower Hudson R., NY	29	10/15/99
20	M Simmons	Barnegat Lt., NJ	10/01/97	D Talerico	Island Beach St. Pk., NJ		10/16/99
36	A LoCascio	Throg's Neck Bldg., NY	12/05/98	T Savoy	Niantic, CT	36	10/16/99
31	R Conklin	Moriches Inlet, NY	06/16/99	B Formhals	Moriches Inlet, NY	33	10/16/99
20	J Yamakatts	Sandy Hook, NJ	10/31/97	D Talerico	Island Beach St. Pk., NJ		10/16/99
20	A Messina Jr.	Little Neck Bay, NY	09/09/99	A Messina Jr.	Little Neck Bay, NY	20	10/17/99
31	A D'Amato	Cape May, NJ	12/16/98	S Dennehy	E of Nantucket, MA	35	10/17/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
24	S Keiper	Indian R., DE	08/30/98	M Minehan	Ocean City, MD	28	10/17/99
31	C Carroll Jr.	Sandy Hook, NJ	10/07/99	J Marroccolo	Raritan Bay, NJ	32	10/19/99
18	T Marburger	Northport, NY	01/16/95	R Nystrom	Stratford, CT	27	10/20/99
25	S Jakubowski	Hoffman Is., NY	11/10/98	P McGuinness	Orleans, MA	26	10/20/99
23	R Stroz	Shrewsbury R., NJ	10/06/96	C Miles	Long Branch, NJ	31	10/20/99
37	A Anderson	Montauk Pt., NY	06/30/97	M Vulpis	Seaford, NY	37	10/21/99
22	A Walker	Deal, NJ	05/28/97	F Heal	Raritan Bay, NJ	31	10/21/99
33	T Visentin	Shinnecock Bay, NY	07/11/99	J Schlichter	Old Orchard Lt., NY	33	10/21/99
21	R Nystrom	Stratford, CT	09/12/98	C Chechoski Jr.	Housatonic R., CT	24	10/21/99
14	A Anderson	Thames R., CT	11/27/98	E Lambert	Pettaquanscutt R., RI	17	10/21/99
15	J Karolides	Danvers, MA	06/19/91	J Posh	Stratford, CT	29	10/21/99
26	W Perlman	Rockaway Beach, NY	05/29/99	E Froman	Island Beach St. Pk., NJ	29	10/21/99
21	D Dibblee	Esopus, NY	05/03/99	A Preditsch	Ft. Tilden, NY	22	10/21/99
23	F Coronato	Raritan Bay, NY	11/10/98	J Cavanaugh Jr.	Hampton Bays, NY	26	10/21/99
23	R Leja	Bridgeport, CT	11/01/98	T Carfiis	Horton's Pt., NY		10/22/99
22	T Shaheen	Sandy Hook, NJ	07/15/97	A Seltzer	Norton's Pt., NY	26	10/22/99
38	R Gardrel	Block Is., RI	08/15/98	R DeCamp	DE Bay, NJ	41	10/22/99
19	W Perlman	Atlantic Beach, NY	07/26/97	T Sheola	Port Monmouth, NJ	31	10/23/99
31	M Russo	Sailor's Haven, NY	09/18/98	B Cerillo	Jamaica Bay, NY		10/23/99
22	T Shaheen	Rumson, NJ	06/03/99	F Fuller	Union Beach, NJ	25	10/23/99
22	R Stasinos	Stamford, CT	09/17/98	R Conklin	Morches Bay, NY	24	10/23/99
27	R Leja	Bridgeport, CT	10/07/98	G Nilsen	Stratford Sh., L.I. Sound	29	10/24/99
18	D Taft	Jamaica Bay, NY	09/06/98	F Schiano	Jamaica Bay, NY		10/25/99
25	P Cappuccio	Beach Haven, NJ	05/24/99	Unk. fisherman	Morches Bay, NY		10/25/99
23	H Sweet	Quick's Hole, MA	08/09/98	J Mahan	South Kearny, NJ	26	10/26/99
23	A LoCascio	Manhasset Bay, NY	10/18/98	Fisherman Mait	Manhasset Bay, NY	24	10/26/99
28	H Schauer	Martha's Vineyard, MA	05/06/99	M Carlucci	Sandy Hook, NJ	32	10/26/99
18	H Sweet	Warren, RI	09/16/98	H Sweet	Warren R., RI	20	0/26/99
26	A Anderson	Montauk Pt., NY	07/18/98	J Paule	Norfolk, VA	30	10/26/99
21	T Marburger	Northport, NY	05/04/97	H Leemann	East R., NYC	27	10/26/99
22	T Marra	Reynold's Chan., NY	06/10/98	D Fiume	Atlantic Beach, NY	25	10/26/99
15	D Hoxsie	Charlestown, RI	07/09/99	J Eliason	Charlestown, RI		10/27/99
21	R Nystrom	Fairfield, CT	05/20/98	R Nystrom	Stratford, CT	24	10/27/99
18	J Jandinski	Chatham, MA	09/21/97	D Peed	Patuxant R., MD		10/27/99
16	D Hoxsie	Charlestown, RI	06/09/99	J Eliason	Charlestown, RI		10/27/99
18	M Simmons	Barnegat Lt., NJ	11/17/96	P Beck	Huntington, NY	20	10/28/99
27	M Vargas	Milford, CT	09/13/98	M Lella	Jones Inlet, NY	29	10/28/99
27	M LeBlanc	Block Is., RI	07/16/97	R McCabe Jr.	Ocean City, MD		10/28/99
20	J Dickinson	Susquehanna Flats, MD	04/08/99	J Dean	Pt. Lookout, MD	22	10/28/99
28	F Casey	Boston, MA	06/11/99	G Buoniconti	Westerly, RI	31	10/28/99
16	S Wilson	St. Michaels, MD	11/28/97	K Didier	Grasonville, MD	21	10/29/99
25	S Fries	Tin Can Grounds, NY	11/06/95	A Pisko	Delaware Bay, NJ	30	10/29/99
26	R Nystrom	Fairfield, CT	08/07/99	W Gartner	Mt. Misery Shoal, NY	30	10/29/99
26	E Feret	Freeport, NY	05/23/99	D Goodwin	Merrick Bay, NY	28	10/30/99
20	W Perlman	Atlantic Beach, NY	05/16/98	E Cutgnola	Westhampton, NY	28	10/30/99
37	A LoCascio	Manhasset Bay, NY	06/08/99	J Angelastro Jr.	Delaware Bay, NJ	40	10/30/99
30	A Schweithelm	Moriches Bay, NY	05/28/99	R Bostick	Delaware Bay, NJ	30	10/30/99
19	N Ciampa	Freeport, NY	08/01/97	J Zema	Keansburg, NJ	27	10/30/99
18	H Sweet	Providence, RI	09/28/99	R Walsh	Cold Spring Hbr., NY		10/30/99
27	A Anderson	Block Is., RI	06/15/99	R McDowell Jr.	Barnegat Inlet, NJ	30	10/31/99
23	G Nigro	Sandy Hook, NJ	07/26/96	J Hoeland	Swash Chan., NJ	30	10/31/99
25	F Coronato	Annadale, NY	11/03/98	R Chalfour	Groton, CT	28	10/31/99
	B Semasek	Indian R., DE	08/31/98	R Carter	Rocky Pt. Pk., MD	17	11/01/99
26	A Anderson	Montauk Pt., NY	07/18/98	B Haag	Reynolds Chan., NY	27	11/01/99
33	A Anderson	Block Is., RI	06/05/98	T Cacioppo	Ches. Bay Brdg. Tun., VA	30	11/01/99
22	A LoCascio	Hart Is., NY	05/29/99	G Wetmore	Eatons Neck, NY	36	11/01/99
25	M Vargas	Milford, CT	10/18/98	R Brodie	New Haven, CT	29	11/01/99
18	A Piszczatowski	Glen Cove, NY	07/13/98	A DeMeo	Prybil Beach, NY	22	11/01/99
17	P Grippo	Zacks Bay, NY	06/06/96	W Smagalski	Upper Hackensack R., NJ	24	11/01/99
19	F Stunkel	Darien, CT	08/03/98	G Walthall	Stamford, CT	24	11/01/99
31	A Anderson	Montauk Pt., NY	10/03/97	M Phillips	Bay Head, NJ	35	11/02/99
24	W Brett	Montauk, NY	09/24/98	J Mozdzen	Sayreville, NJ	27	11/03/99
22	A Piszczatowski	Glen Cove, NY	10/12/97	A Perez	Battery Pk., NYC	28	11/03/99
23	A Anderson	Block Is., RI	06/17/99	J Fleischmann	Block Is., RI		11/03/99
20	W Marker	Atlantic Beach, NY	09/13/98	C Capone	Brigantine, NJ		11/04/99
25	F Casey	Boston, MA	07/26/99	G Cardel	Huntington Bay, NY	26	

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
27	L Gonnello	Flynn's Knoll, NJ	06/30/99	J Wall	Delaware Bay, NJ	29	11/05/99
19	T Shaheen	Highlands Brdg., NJ	08/08/97	C Schnell	Raritan Bay, NJ	32	11/05/99
28	F Heal	Old Orchard Lt., NY	05/19/99	C Jusino	Hell Gate, NY	31	11/06/99
24	T Rinaldi	Duck Pond Pt., NY	07/16/98	J Reres	Old Orchard lt., NY	26	11/06/99
19	R Kyker	Norwalk, CT	06/01/97	R Szellan	Hoffman Is., NY	25	11/06/99
27	J Dotsey	Montauk Pt., NY	08/20/98	C Bellinzoni	Jones Inlet, NY	29	11/06/99
26	B Semasek	Indian R., DE	11/03/99	G Hazzard Jr.	Indian R. Inlet, DE	28	11/06/99
28	W Marker	E. Rockaway Inlet, NY	09/05/98	M Lichter	Atlantic Beach Brdg., NY	33	11/06/99
	T McCandless	Jamestown, RI	06/24/99	G Amato	Sandy Hook, NJ	24	11/06/99
24	G Blank	East R., NY	10/09/99	R Lewis	East R., NYC	26	11/06/99
28	A Anderson	Block Is., RI	06/26/99	E Dorzan	Delaware Bay, NJ	31	11/06/99
20	A Piszczatowski	Glen Cove, NY	06/18/99	E Hummel	Raritan Bay, NJ	24	11/06/99
30	A D'Amato	Cape May, NJ	12/16/98	C Jusino	Hell Gate, NY	31	11/07/99
21	R Conklin	Moriches Inlet, NY	06/16/99	G Muller	Breezy Pt., NY	23	11/07/99
18	A Anderson	Thames R., CT	12/06/97	J Maldonado	East R., NYC	20	11/07/99
24	W Perlman	Atlantic Beach, NY	09/13/97	F Morehouse	Edison, NJ	30	11/07/99
15	P Chowansky	Sea Girt, NJ	12/21/98	A Aliperti	Cold Spring Hbr., NY		11/07/99
16	A Schweithelm	Eatons Neck, NY	07/10/99	P Baigent	Stony Brook, NY		11/08/99
24	C Carroll Jr.	Sandy Hook, NJ	10/07/99	P Hayden	Jamaica Bay, NY	25	11/08/99
25	T Matraxia	Ambrose Chan., NY	08/10/99	J Wilkns	Off Solomons, MD	27	11/08/99
19	G Blank	East R., NYC	09/04/99	G Bernardo	Sandy Hook, NJ	23	11/08/99
20	B Quick	Harvey Cedars, NJ	05/24/99	C Carr	Seaside Hts., NJ	22	11/08/99
29	A Anderson	Block Is., RI	10/02/99	R Gansert	Corson's Inlet, NJ	33	11/08/99
26	F Stunkel	Norwalk, CT	05/08/99	A Gabriel	Island Beach St. Pk., NJ	27	11/08/99
24	T Shaheen	Rumson, NJ	07/03/97	J Williams	Stratford, CT	24	11/09/99
27	A Anderson	Montauk Pt., NY	10/24/99	L Ortiz	Whitestone Brdg., NY	31	11/09/99
12	A Perednia	East R., NYC	10/24/99	P Hoang	City Is., NY		11/09/99
28	W Perlman	Atlantic Beach, NY	10/25/99	G Muller Jr.	Sandy Hook NJ	31	11/09/99
24	R Kyker	Norwalk, CT	10/21/99	F/V Miss Nancy	Gardiners Bay, NY	25	11/09/99
24	R Conklin	Moriches Inlet, NY	06/11/99	G Hlavka	Keyport, NJ	28	11/10/99
18	A Schweithelm	Northport, NY	04/05/96	A Zerrudo	Sandy Hook Bay, NJ	31	11/10/99
26	P Grippo	Montauk Pt., NY	07/12/99	J Youst	DE Bay, NJ	28	11/10/99
25	A D'Amato	Wildwood, NJ	12/06/98	F Caldero	Monches Inlet, NY	28	11/10/99
23	G Ottavio	Cape May Pt., NJ	10/31/98	T Cara	Montauk, NY		11/10/99
24	A Anderson	Block Is., RI	09/22/96	J Abrams	Oceanic Brdg., NJ	25	11/10/99
24	A Gano	Fire Is. Inlet, NY	12/03/98	H Dietz	Wading R. Cr., NY	28	11/10/99
24	F Stunkel	Stamford, CT	06/21/99	C Nicholas	S Cape May Inlet, NJ	26	11/10/99
37	F Heal	Great Kills, NY	11/21/98	N Luba	Essex, CT	40	11/10/99
23	N Fiorillo Jr.	Bradley Beach, NJ	11/07/98	J Colciaghi	Brick Beach, NJ		11/10/99
19	A Ashwerthelm	Asharoken, NY	06/24/98	W Sistad	Belmar, NJ	28	11/10/99
27	D Kelly	Orent Pt., NY	09/20/99	J Kikel	Riis Pk., Rockaway, NY	29	11/11/99
26	G Ottavio	Cape May, NJ	11/28/98	A Eckert	Cape May, NJ	28	11/11/99
27	F Bovasso	Bay Head, NJ	11/21/98	A Pluskota	Barnegat Bay, NJ	28	11/13/99
20	G D'Amato	Stratford, CT	07/22/97	D Ragnone	Milford, CT	24	11/13/99
23	P Grippo	Haunts Cr., NY	06/03/99	M Ponzini	Raritan Bay, NY		11/13/99
27	A LoCascio	Little Neck Bay, NY	02/28/98	D Mann	Middle Gr., L.I. Sound	27	11/13/99
22	M Derfler	Offshr., Atlantic City, NJ	12/07/98	L Zandomenego	Sandy Hook Bay, NJ		11/13/99
27	W Perlman	Atlantic Beach, NY	10/01/99	B Gennin	Reynold's Chan., NY	31	11/14/99
20	R Ries	Cold Spring Hbr., NY	09/24/99	S Nappi	Jones Beach, NY	23	11/14/99
20	A Schweithelm	Crab Meadow Beach, NY	10/02/99	C Blazer	Breezy Pt., NY	20	11/14/99
17	T McCandless	Jamestown, RI	10/10/99	N Hermann	S. Kingstown, RI	1	11/15/99
23	A Anderson	Montauk Pt., NY	06/02/99	W Pine	Raritan R., NJ	23	11/15/99
26	R Baumann	Leonardo, NJ	10/21/99	M Swierczewski	Indian R. Inlet, DE	26	11/15/99
26	F Casey	Boston, MA	07/17/98	W McLaughlin	Barren Is., MD		11/15/99
23	J Della Porta	Swampscott, MA	09/28/99	E Teise	Avalon, NJ	24	11/15/99
20	A Anderson	Thames R., CT	03/21/99	E Huertas	Norwich, CT		11/15/99
24	W Meyer	Sandy Hook, NJ	10/30/97	V Losito	E. Rockaway Inlet, NY	26	11/15/99
19	R Wellman	Horton's Point, NY	11/29/90	R Brodie	New Haven Harbor, CT	35	11/16/99
20	M Berger	Atlantic Beach Brdg., NY	05/15/97	M Cady	Newport News, VA	33	11/16/99
22	S Hartmann	Eatons Neck, NY	10/03/99	J McLaughlin	Sea Isle City, NJ	22	11/17/99
22	D Kelly	Orient Pt., NY	09/29/99	D Talereo	Island Beach St. Pk., NJ	24	11/17/99
16	K Hollins	Is. Bch. St. Pk., NJ	05/26/97	R Stroz	Sea Brght, NJ	24	11/17/99
26	F Tellefsen	Staten Is., NY	09/26/99	K Lillie	Eiberon, NJ	26	11/17/99
20	F Stunkel	Norwalk, CT	10/10/99	G Haff	Ortley Beach, NJ	24	11/18/99
25	J Anderson	Block Is., RI	06/05/99	J Harakal	Manasquan, NJ	29	11/18/99
30	A Anderson	Block Is., RI	06/12/98	L Vosseller	Seaside, NJ		11/18/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
16	R Messina	Manhasset Bay, NY	07/28/99	J Halleran	Spring Lake, NJ	20	11/18/99
19	I Mittlemark	Wantagh, NY	07/08/99	W Kaufmann	Raritan Bay, NJ	24	11/19/99
26	S Hartmann	Eatons Neck, NY	08/12/99	K Havens	New York Harbor	27	11/19/99
24	A Hoydich	Sandy Hook, NJ	11/25/98	T Shibla	Lavallette, NJ	29	11/19/99
28	T Matraxia	Raritan Bay, NJ	05/11/99	J Dowd	Brgantine, NJ	30	11/19/99
20	GS Gray	Charlestown, RI	06/10/97	A Carneo	Cape May, NJ	29	11/20/99
37	V McDiarmid	Montauk Pt., NY	10/05/98	T Young	Rappahannock R., VA	37	11/20/99
18	M Russo	Moriches Bay, NY	10/24/99	N Malizia	Sandy Hook, NJ		11/20/99
26	R Nystrom	Devon, CT	10/03/99	M Gdisis	Block Is. Sound, RI	28	11/20/99
25	A Anderson	Block Is., RI	05/27/99	R Mihalko	Moriches Inlet, NY	26	11/20/99
26	R Baumann	Sea Bright, NJ	11/30/98	A Putranziello	Montauk Pt., NY	29	11/20/99
27	T Matraxia	Flynn's Knoll, NJ	11/09/99	T Chrominski	Sandy Hook, NJ	29	11/20/99
24	D Partusch	Shrewsbury R., NJ	04/19/97	T Ort	Ches. Bay Brdg. Tun., VA	36	11/21/99
22	M Simmons	Barneget Light, NJ	06/30/98	M Pfluger	Little Egg Inlet, NJ	28	11/21/99
29	W Brett	Provincetown, MA	06/24/99	J Mozdzen	Sayreville, NJ	29	11/21/99
13	R Stasinos	Stamford, CT	09/27/97	S Murphy	Statue of Liberty, NY		11/21/99
26	A Elson	Block Is., RI	10/15/99	J Ronkothy	Upper Delaware Bay, NJ	29	11/21/99
18	R Allen	Ches. Bay Brdg. Tun., VA	02/03/99	C Pritchett	Dorchester County, MD	18	11/22/99
26	F Stunkel	Eatons Pt., NY	08/15/97	F Wulp	College Pt., NY	31	11/22/99
26	A Anderson	Block Is. RI	06/02/98	V Orzel	Barneget, NJ	26	11/23/99
20	R Cranshaw	Cuttyhunk, MA	10/04/99	W Burton	Port Monmouth, NJ	23	11/23/99
31	P Grippo	Montauk Pt., NY	09/26/98	J Giles	Ches. Bay Brdg. Tun., VA	34	11/23/99
22	R Nystrom	Stratford, CT	09/26/99	D Kohn	Hoffman Is., NY	24	11/23/99
27	C Carroll Jr.	Bradley Beach, NJ	05/08/99	L Montagna Jr.	Ches. Bay Brdg. Tun., VA	32	11/24/99
27	A Messina Jr.	Little Neck Bay, NY	04/26/99	E Ramirez	Battery Park City, NY		11/24/99
21	C Silva	Newport, RI	06/10/94	S Rosenzweig	Jones Inlet, NY	37	11/24/99
16	T Marburger	Nortport, NY	02/16/99	G Bery	Little Egg Inlet, NJ		11/25/99
27	A Anderson	Montauk Pt., NY	05/14/99	G Amgorn	Fire Is., NY	29	11/26/99
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20	T Shaheen	Rumson, NJ	05/02/99	D Winant	Oceanport, NJ		12/01/99
21	J Ragusa	Fire Is. Lt., NY	04/25/98	B Tarnowski	Rockaway, NY		12/01/99
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19	P Grippo	Jones Beach, NY	11/13/99	F White III	Indian R. Inlet, DE		12/03/99
38	D Brodeur	Niantic, CT	06/13/98	R Clark	Montauk, NY	38	12/04/99
	T Alterson	Tobay Beach, NY	10/16/99	P Cairoli	Bay Head, NJ	25	12/04/99
19	A Schweithelm	Crab Meadow Beach, NY	07/28/99	W Weisser	Eatons Neck, NY	21	12/04/99
28	D Kelly	Sag Harbor, NY	06/09/99	A Keith	Asbury Pk., NJ	30	12/04/99
18	R Pearson Jr.	Breezy Pt., NY	11/17/99	V Ferrara	Lavallette, NJ	19	12/04/99
24	A Anderson	Block Is., RI	06/20/99	B Hulburt	Ches. Bay Brdg. Tun., VA	25	12/04/99
31	R Conklin	Moriches Inlet, NY	09/27/99	J Baxter	Little Egg Inlet, NJ	32	12/04/99
27	L Gonnello	Breezy Pt., NY	07/16/99	W Forrest Jr.	Ches. Bay Brdg. Tun., VA	29	12/04/99
25	R Conklin	Moriches Inlet, NY	10/16/98	J Morgan	Mathews County, VA	28	12/05/99
22	L Gonnello	Flynn's Knoll, NJ	06/15/99	J Evans	Lavallette, NJ	26	12/05/99
23	E Petronio Jr.	Pt. Judith, RI	05/21/98	B Gartner	Avalon, NJ	28	12/05/99
17	E Petronio Jr.	Pt. Judith, RI	05/15/98	L Bjorlo	Romer Shoal, NJ		12/05/99
25	R Stasinos	Stamford, CT	07/05/99	J Biscardi	Jones Beach, NY	26	12/05/99
20	A Messina	Manhasset Bay, NY	07/12/99	A Tada	West Bank Lt., NY	22	12/05/99
27	P Blanchard	Chatham, MA	09/06/97	B Loeschwitz	Absecon Inlet, NJ	29	12/05/99
22	R Conklin	Moriches Inlet, NY	09/17/98	R Pracher	Moriches Inlet, NY	25	12/05/99
24	E Feret	Freeport, NY	05/23/99	M Mazziotti Jr	Pt. Lookout, NY	27	12/07/99
16	J Balicki	Cliffwood Beach, NJ	04/24/99	F Kertesz	Oyster Cr., NJ		12/07/99
24	J Zaffuto	Democrat Pt., NY	06/28/97	J Aaron	Hooper Is. Lt., MD		12/07/99
21	T Shaheen	Raritan Bay, NJ	09/08/96	J Aaron	Hooper Is. Lt., MD		12/07/99
26	R Mihalko	Moriches Inlet, NY	11/20/99	W Yackel	Moriches Inlet, NY	28	12/08/99
24	J Della Porta	Swampscott, MA	08/02/99	R Luce	Lavallette, NJ	28	12/09/99
26	A Anderson	Block Is., RI	05/17/98	W Prince	Chesapeake Bay, VA	31	12/09/99
27	J Posh	Watch Hill, RI	06/08/99	J Banks	Hampton, VA	30	12/09/99
35	C Kennedy	Cape May Pt., NJ	10/27/98	W Russell	Potomac R., VA	35	12/09/99
21	S Giaccone	Jones Beach, NY	08/04/98	D Grossenbaugh	Ches. Bay Brdg. Tun., VA	26	12/09/99
24	R Vogel	Sandy Hook, NJ	06/16/98	L Bjorlo	Romer Shoal, NJ	28	12/10/99
26	R Nystrom	Fairfield, CT	09/04/99	G Smith	Seaside, NJ	29	12/11/99
18	G Blank	Governor's Is., NY	11/18/99	M Strober	Bay Ridge flats, NY	19	12/12/99
31	J Caputo	Execution Lt., NY	06/13/96	P Greco	Statue of Liberty, NY	39	12/12/99

Species Length	Tagger	Place Tagged	Date	Recapturer	Location	Length	Date
20	R Baumann	Raritan Bay, NJ	10/27/99	P Fernicola	Spring Lake, NJ	23	12/12/99
22	M LeBlanc	Riverside, RI	06/17/98	W Woolwine	Williamsburg, VA	27	12/12/99
21	C Carroll Jr.	Sandy Hook, NJ	05/15/99	P Fernicola	Spring Lake, NJ	25	12/12/99
20	GS Gray	Charlestown, RI	05/30/98	A Villatoro	Potomac R., VA		12/15/99
25	A Anderson	Block Is., RI	08/12/98	M Mitchell	Williamsburg, VA	37	12/15/99
13	A Schweithelm	Cape May, NJ	04/20/99	F/V Capt Male	Cape May, NJ	18	12/15/99
23	B Semasek	Indian R., DE	12/05/99	J Baker	Indian R. Inlet, DE	23	12/15/99
17	M Simmons	Barnegat Lt., NJ	05/27/98	C Hudgans	Offshr., Sandbridge In., VA		12/15/99
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20	T Shaheen	Sandy Hook, NJ	07/30/99	A Seltzer	Rockaway, NY	23	12/18/99
21	R Conklin	Moriches Inlet, NY	07/05/98	W Heller	Mouth of Potomac R., VA	26	12/18/99
14	D Hoxsie	Charlestown, RI	06/21/98	A Lazuk	Norwich, CT	19	12/18/99
17	A Anderson	Thames R., CT	03/21/99	S Sutton	Norwich, CT		12/21/99
26	A Anderson	Block Is., RI	05/21/99	D Sendecki	Island Beach St. Pk., NJ	29	12/21/99
31	S Jakubowski	Raritan Bay, NJ	05/10/99	C Flowers Jr.	Hoopers Is. Lt., MD		12/22/99
21	T Shaheen	Sandy Hook, NJ	06/20/97	C Thomas Sr.	James R., VA	30	12/27/99
20	T Shaheen	Navesink, NJ	04/18/97	S Beal	Offshr., VA Beach, VA	26	12/27/99
18	T McCandless	Jamestown, RI	10/05/99	E Covino	Uncasville, CT	19	12/30/99
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30	M Murphy	Montauk, NY	11/22/98	R Williams	Chesapeake Bay, MD	35	12/31/99
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Tautog

12	T Marburger	Northport, NY	03/30/99	B Schulken	Northport, NY	12	04/03/99
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12	A Piszczatowski	Glen Cove, NY	10/30/99	P Emmerich	Glen Cove, NY	12	11/06/99
12	A Piszczatowski	Stamford, CT	11/01/99	R McGuire	Stamford, CT	13	11/09/99
13	J Gibbons	Atlantic Bch. Reef,	10/31/99	R Karman	Atlantic Beach Reef, NY	13	12/12/99

Weakfish

19	B Shillingford	Ludlam Bay, NJ	08/02/98	F Fabrykas	Fenwick Is., DE	26	04/09/99
25	S Keeper	Indian R. Inlet, DE	06/17/99	J Pavalko	Indian R., DE	26	08/11/99
26	A D'Amato	Cape May, NJ	07/22/99	G Rohana	Cold Spring Inlet, NJ	26	08/15/99
14	G Antognoli Jr.	Bay Head, NJ	07/21/99	F Krupa	Manasquan Inlet, NJ		08/17/99
16	G Horvath	Barnegat Inlet, NJ	08/05/99	J Kumaras	Barnegat Bay, NJ	17	09/08/99

Winter Flounder

11	K Leopold	Heckscher St. Pk., NY	03/20/96	T Minnick	Quogue, NY	15	03/21/99
14	J Laughlin	Sandy Hook Bay, NJ	10/23/98	T Buban	Shrewsbury R., NJ	14	04/03/99
11	S Bomersbach	Sandy Hook, NJ	12/02/98	J McDermott	Sandy Hook, NJ	11	04/30/99
12	J Lutz	Back Bay, Avalon, NJ	05/03/98	B McCabe	Back Bay, Avalon, NJ	16	07/29/99

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Down Among the Sheltering Reefs

by BARNEY COLE

Most fisherman instinctively know that if you want to catch certain types of fish you go to a spot in the ocean below which there is a shipwreck, rocky ledge, "lump," a pile of manufactured or scrap material deposited as an "artificial" reef, or in the south a patch of coral, many of which are called "reefs." These spots are usually marked by a concentration of boats that got there before you. The "reefs" are usually guaranteed fish producers, or so the guides tell you, and are essential to the coastal economy as a consumer of monofilament line, hooks, sinkers, and an occasional anchor that need to be replaced after every trip. Unless you are also a diver or watch PBS or Discovery Channel nature programs, most fishermen have only a vague idea what a reef looks like and what fish are doing on it. Some may think all reefs are covered with luxuriant coral and helpful mermaids who are waiting to put a pool winner on your baited hook.

Although everyone is aware of coral reefs and the diversity of life and fish that live on these reefs, few fishermen or even scientists are familiar with the reef habitats in the North Atlantic, particularly in the area between Cape Hatteras and Cape Cod; even the reefs north of Cape Cod are poorly known. You can't see these reefs from the side of your boat in case you want to think about what might be going on near your bait while it is ignored or nibbled by cunner (bergall) and rock crabs. You can think or dream that a big sow-bellied cod or 20-pound tautog, fluke or sheepshead is eyeing and nudging your

The author is an ex-lobsterman, former scuba diver, semi-retired marine science consultant, and persistent fish-watcher who has lived most of his life within a mile or two of the beach in NJ and NY.

bait just waiting for the right moment to take the clam or squid strip you offer, but dream on -- it ain't often so. To make your thoughts or dreams more vivid and accurate, I thought I would scribble a few notes about what a northern "reef" habitat often looks like, for those of you who have never done any scuba diving up here. I will also mention some creatures that live on these reefs that seldom get your attention, even if you are aware of them.

First, all reefs do not look or work the same, or are the same, all year round; many of you know this but do not feel the need to tell the rest -- shame on you. A reef community, like a human community, is the product of a diversity of changing physical and biological factors. For the reef these include such things as water depth (involving temperature, wave surge, and sand movement); deeper reefs (generally below 60 feet) are cooler in the spring-summer and warmer in the fall-early winter and less physically dynamic. This affects what lives on a reef habitat and what they are doing.

In the summer some greater-than-70-foot deep northern reefs are beneath what is called a thermocline; this is where a layer of sun-warmed surface water about 50-60 feet thick sits on top of a layer of cold bottom water left over from the winter-spring. While the top water can be clear, the bottom water can be black from old decaying plankton (a type of aquatic dust), especially near inlets, or vice versa; if there is a plankton bloom in the surface, the bottom can almost be crystal clear. Storms can temporarily mix these two layers, and they can disappear altogether in the cooler months. This difference in water characteristics on either side of the thermocline, besides affecting summer reef life, can reduce the attractiveness of your bait, assuming your bait is not ugly

to start with, but this is getting away from the topic.

Some northern reef fish are die-hard, almost year-round community residents, such as tautog and cunner, which are closely associated with the coastal reef habitat and feed extensively on mussels, barnacles, and crabs that live on the reef. In warmer, southern areas, such as off Virginia, black sea bass, scup, sheepshead, gag grouper, and other small species are less likely to make a seasonal trip and can also be considered residents there, including on the live bottom with its whip corals.

Resident fish can move to other reefs, especially with changes in seasons, to deeper or shallower reefs with more comfortable conditions -- they are not so different from us after all. If it gets really cold, some species, like cunner and tautog, which cannot find a reef habitat in warmer water, may wedge themselves into a reef hole or crevice and go into a

type of hibernation until bottom waters begin to warm again. Now you know what happened to them -- still there but sleeping. Tautog and cunner are northwestern Atlantic pioneer species of the mostly tropical wrasse family that are usually bright-colored coral reef fish; gag are also northern pioneers of the grouper family. With global warming, we may see more southern species, such as grey triggerfish, spending more time on northern reefs.

Few fish lay eggs on northern reefs, but the resident ocean (or eel) pout does, in a nest in a reef hole which one or both parents guard over the winter. There are stories that ocean pout will even use an old rubber fisherman's boot as a nest. Ocean pout are also one of the few fish that eat sand dollars, and when they do, their lips turn green. Since live sand dollars are seldom found in bait stores, ocean pout are seldom caught by hook, but they are good food, if you have the patience to fillet their often knotted body.

Many other northern reef fish are seasonal residents. In the summer, after the bottom water temperatures reach about 45-47F degrees, the summer reef fish crowd arrives -- the black sea bass, scup (porgies), spade-fish (usually found around anchor lines), triggerfish, sea robins, and others. They come from their wintering grounds off Virginia or the Carolinas. When they arrive, they mix with the residents, such as tautog, cunner, eel pout, conger eels, and red hake.

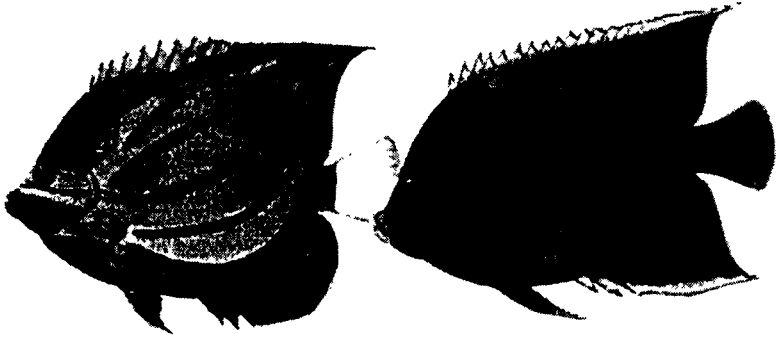
The black sea bass, with that rakish white streamer off their upper tail fin and males with blue foreheads, hang out over and around the reef and wait for small fish, squid, or shrimp (or your bait) to visit the reef, but often in the early morning, evening, or when especially hungry they will venture out to feed on razor clams and crabs on



A starfish and a cunner on a reef off the coast of Delaware.

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the open sand bottom near the reef. Small black sea bass are usually females and when they grow to about 11 inches (24 cm) they begin to change into males -- thus the size limit established for these fish can be especially important to a reproducing population. The multicolored scup visit the reef in small schools, often of similar-sized fish, and nibble on small prey, worms, and such, which they find on the near-reef sand bottom or on the reef. At this season, the Vikings of the fish-world, the bluefish, also sweep in and raid the reef for any fish that are not quick or well hidden. Large bandit fluke or goosefish will hang around at the edge of the reef waiting to ambush the unwary.

In the late summer, divers usually report seeing a variety of tropical fish on the northern wrecks and reefs. These observations of tropical fish include butterflyfish, tangs, big-eyes, pigfish, grunts, tomatoes, parrotfish, trunkfish, cornetfish, and burrfish. These are thought to be the product of eggs or larvae being washed around Cape Hatteras in the spring and by some miracle make it into warm coastal waters to grow until the water cools again and then, we assume, they perish.

In the winter, other visitors arrive, these being mostly New England cod, pollack, or fish that move out of the chilled coastal waters into warmer, deeper waters and again mix with the reef residents. If the bottom water gets cold enough, some lingering summer species, such as large black sea bass, may stay awhile farther offshore on deep and still warm enough wrecks. The winter visitors also drift over and around the reef and find food on the reef, on the open bottom around the reef, sometimes preying on the mackerel, herring, and squid that swim by.

There are a variety of other fish that can be commonly found on a northern reef; the make-up can vary as one moves up the coast from Virginia to Massachusetts. These other but seldom caught or even seen fish include the multi-colored, camouflaged sea raven, small blennies, gob-

ies, and rock eels. Lumpfish and radiated shannys occur on southern New England reefs. Also, there are natural and artificial reefs within estuaries, which support a diverse fish community, including young-of-the-year, juvenile striped bass, but this is outside of the scope of this note.

I haven't covered what a reef habitat looks like yet. Some people think it is like a small rocky hill on land, and covered by different things at different times of the year and having a mix of perennial and annual species growing on it called "epifauna." A dominant and important epifaunal species is the blue mussel, which shows up as quarter-inch spat in the spring and other times, and can form a velvet blue carpet over most of a reef's hard surface. These are eaten by almost everything, especially by herds of grazing sea stars, spider crabs, lobsters and by a number of fish. By the following winter only a few large mussels may survive, partially hidden in crevices. Thus the blue carpet turns into a patchwork of other species

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until the next mussel spat set occurs.

Some of the other species are very visible, like the large yellowish-tan "flowering" sea anemones and smooth white lumps of northern stone coral. Yes, we have coral in the North Atlantic. Other epifauna are cryptic and innocuous, such as barnacles, various fuzzy hydroids, bryozoans (small moss-like animals), and a plethora of microscopic tube worms and small crustacea that live among the bigger stuff. If you are lucky enough to snag a bit of epifauna on your hook, don't throw it back immediately, take a minute and look at it closely. If you have a pocket lens, you will be absolutely amazed at the beauty and complexity of the things that can be found growing on a single large mussel: lacy bryozoans, the hard white tubes of one type of worm and the dark muddy tubes of others, tufts of hydroids looking like microscopic flowers, the volcano cones of barnacles (a relative of shrimp), shimmering jingle shells, and others.

If there is room in your tackle box or

back pack, try to keep a guide to marine life handy, such as Kenneth Gosner's *A Field Guide to the Atlantic Seashore*, using it to learn more about the epifauna can give you insight to productive fishing grounds that other fishermen can only guess at, especially if you are one of the better fishermen who always look to see what their catch was eating and keep notes on the prey. The guide can help identify the prey.

This was a miniaturist picture of the northern reef and does not get into many interesting details, such as the nighttime lobster forays, and a host of small things that make a life on the reef. So while you are hanging out on the rail fingering your slack line waiting for the pool winner to hit, you can imagine a scenario below you of a village of various aquatic inhabitants going about their lives in fields of epifauna, looking for a meal, and a place to rest. And "not in my backyard" is also their reaction to trash (especially cigarette butts and plastic) some might be tempted to drop into the ocean. □

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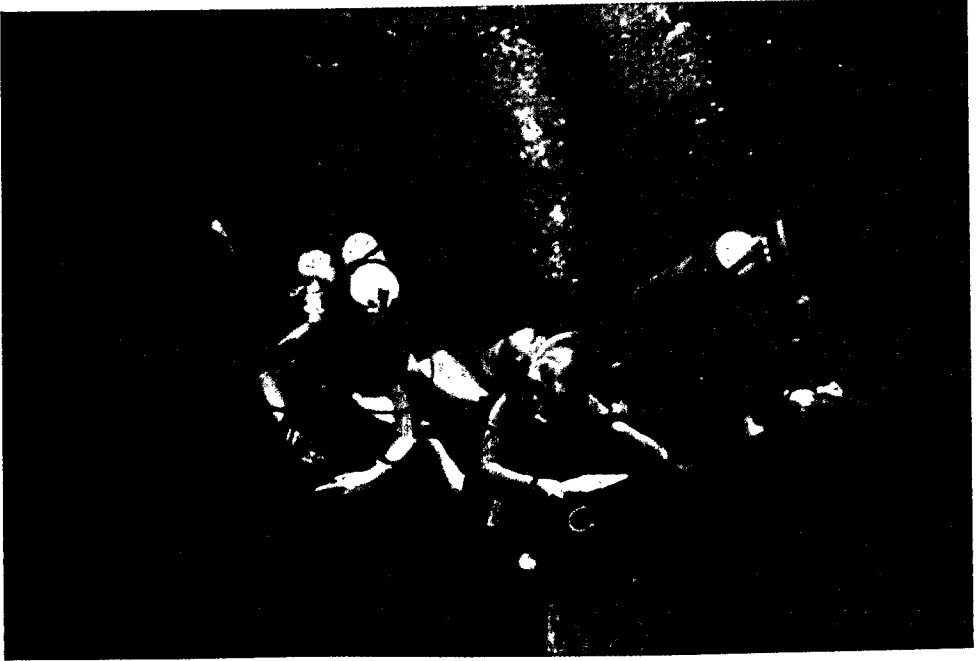
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Learning to See Underwater

by CHRISTY PATTENGILL-SEMMENS



The hunt begins. A team of volunteer divers identify fish in a designated area as part of the Reef Environmental Education Foundation's fish survey program.

Caring for and about the marine environment requires a comprehensive understanding of ecosystem structure and function. It is only through concerted and persistent data collection that researchers and resource managers are able to understand these components. Unfortunately, the monumental task of surveying, recording and cataloging an immense liquid wilderness is insurmountable without help. Help, in this case, comes from thousands of recreational divers and snorkelers who visit coastal areas each year. The Reef Environmental Education Foundation's (REEF) program enlists those divers to provide meaningful information while enabling them to learn how to really see underwater.

REEF was founded in 1990 out of

The author is the Scientific Coordinator of the REEF Program, based in Seattle, Washington.

growing concern about the health of the marine environment, and the desire to provide the scuba diving community a way to contribute to the understanding and protection of marine populations. REEF achieves this goal primarily through its volunteer fish monitoring program, the REEF Fish Survey Project. The Project was developed with support from The Nature Conservancy and guidance by the Southeast Fisheries Science Center of the National Marine Fisheries Service. The REEF Fish Survey Project allows volunteer SCUBA divers and snorkelers to collect and report information on marine fish populations. The data are collected using a fun and easy standardized method, and are housed in a publicly-accessible database on REEF's Website (www.reef.org). Participants in the Project not only learn about the environment they are diving in; they also collect valuable information.

The Method

To collect data for the Project, REEF volunteers use the Roving Diver Technique, a visual survey method specifically designed for volunteer data. The only materials needed are an underwater slate and pencil, a scantron form available at no charge from REEF, and a good reference book. During a REEF survey, divers swim freely throughout a dive site and record every fish species that can be positively identified. The "hunt" for fishes begins as soon as the diver enters the water. The goal is to find as many species as possible so divers are encouraged to look under ledges and up in the water column. At the conclusion of a survey, each recorded species is assigned one of four abundance categories based on how many individuals were seen throughout the dive (single [1]; few [2-10], many [11-100], and abundant [>100]). Following the dive, each surveyor records the species data on the REEF scansheet specific for the region the survey was conducted in. Completed scansheets are returned to REEF HQ, where they are processed and entered into REEF's database. Additional forms are available free of charge, and can be ordered over the web or by phone.

The Project started in Florida in 1993, and since then it has expanded to include the entire tropical western Atlantic (Florida, Caribbean, Bahamas, and Gulf of Mexico), southern Atlantic states (Georgia and South Carolina), the Northeast (Maine through North Carolina), the West Coast of the United States and Canada (California, Oregon, Washington, and British Columbia), the tropical eastern Pacific (Gulf of California to the Galapagos Islands), and most recently the Hawaiian Islands. By the end of 2000, over 28,000 surveys had been conducted by REEF members throughout the world.

Putting the Data to Use

REEF's programs contribute significantly to the task of acquiring information on one of the most important aspects of

Threatened Species Gets Some

Help- After the number of jewfish (*Epinephelus itajara*) dropped to significantly low numbers in the 1980s, they were protected from all harvest in Florida waters in 1990.

Populations have staged a gradual comeback, but there has been an increasing lobby to remove their protected status. Without landings information, resource agencies turned to the REEF database to help decide this critical management decision. Based on distribution maps of jewfish sightings from REEF surveys that were developed by Florida's Fish and Wildlife Conservation Commission and the National Marine Fisheries Service, the Gulf of Mexico Fisheries Council determined that it would not be prudent to reopen the fishery now.

Providing Insight Into Fish Assemblages in the Florida Keys National Marine Sanctuary- Encompassing over 9,000 km², the coral reefs of the Florida Keys represent the third largest barrier reef in the world. To date, over 6,000 REEF surveys have been conducted within the Sanctuary and these data have provided a foundation for several papers and reports. Chris Jeffrey, a researcher with NOAA's Biogeography Office, recently used REEF data in conjunction with benthic habitat maps to investigate relationships between fishes and habitats in a GIS. A multi-site multi-species trend analysis was also recently completed by University of Washington graduate student, Brice Semmens, adapting an analysis method originally developed for Breeding Bird Survey data. REEF data collected over 7 years from 21 sites throughout the Sanctuary were used in the analysis, which highlighted sites that represented potential management concerns based on negative population trends across a large proportion of the species.

the marine ecosystem -- fish community structure. Data collected through this project have been used in many scientific publications and symposiums, by resource managers in the Florida Keys and other marine managed areas, by the State of Florida's artificial reef program, and by NOAA's Biogeography Office among others (see sidebar for some examples).

In the coming year, REEF will also begin work on a Fish Species Distribution Atlas for the tropical western Atlantic. This atlas will use REEF data to map the distribution and estimated abundance of all fish species documented during REEF surveys. The exact location of each survey is known and can therefore be placed on a map. The spatial resolution of the database along with the wide geographic coverage and large amount of field time put in by REEF members all lend themselves to the creation of an atlas. The distribution atlas will provide basic but novel information on where fish species are found and will be used to measure rarity and distribution changes over time. The creation of the Reef Fish Distribution Atlas will be a significant contribution to the understanding and conservation of western Atlantic reef fishes. It is anticipated that similar atlases will be produced for the other Project areas as data collection continues.

Really Learning to See

In addition to the usefulness of the data, REEF's educational contributions are equally significant. Participation in REEF's survey program enhances a diver's ability to discern details about the marine environment. For divers that have no training as naturalists, areas begin to blend together and the attitude that "it's just another coral reef" or "one more kelp forest" prevails. The excitement of finding a rare fish can only be appreciated if one knows it's rare. By learning

identification techniques and recording their fish observations, REEF surveyors become keen observers, true naturalists.

Divers and snorkelers are not required to attend any specific training program to participate in the Fish Survey Project, and many of them have become adept at fish identification through continued practice and self-education similar to many bird-watchers. However, REEF does offer several educational opportunities to get people started and to further their knowledge. REEF produces a standardized training curriculum for introductory fish identification and has modules for all of its project areas. These courses are taught through dive shops, dive clubs, educational institutions and public aquaria. Ten to twelve Field Surveys are also offered each year, and serve as a great way for divers to get started in fishwatching and for experienced REEF surveyors to hone their



With slate board in hand, a volunteer counts fish at a coral reef.

skills. These week-long trips are led by REEF staff and feature daily seminars and survey dives.

A broader outreach effort is achieved through the Great American Fish Count. In collaboration with NOAA's National Marine Sanctuary Program, REEF coordinates this annual event each July as a way to promote awareness about marine resources and to encourage immature naturalists. It also encourages divers to take up REEF surveying as a regular diving activity. Free fish identification seminars and survey dive opportunities are offered throughout the United States leading up to and during the event.

A Program with Many Benefits

The scientific and management applications of REEF's volunteer-generated database are ever-expanding and will become more powerful as the amount of

data continues to increase. Regardless of the data applications, the awareness that comes from becoming a naturalist provides REEF surveyors continued benefit. REEF's co-founder, Paul Humann, describes fishwatching as "a passionate hobby within a hobby: it gives purpose to a dive, anyone can take it up and have an instant good time." And benefits extend beyond improving an individual diver's underwater experience. The sense of stewardship that arises from involvement in citizen science programs such as REEF's Fish Survey Program raises the public's awareness of and involvement in resource issues. Ultimately, REEF's efforts empower volunteers, and this often makes the process of marine resource management easier.

For a complete list of projects and papers that have used REEF data, visit www.reef.org/data.

GUIDELINES FOR SUBMISSION

UNDERWATER NATURALIST is the Society's journal. We encourage members to submit articles, pictures, observations, comments, compliments or criticisms. Please follow these guidelines:

SUBJECT MATTER: Feature articles run 1,500-3,500 words (4-10 double-spaced, typed pages); please refer to back issues for guidance. For *Field Notes and Coast Issues*, submit no more than three pages of direct observations of interesting natural history found while walking, diving, or fishing in a coastal area. Topics can be of current interest, such as red tide in the Carolinas, whale deaths in New England, or mangrove preservation in the south; you can also submit a number of short observations or notes regarding a particular area. **Letters to the Editor** expressing thoughts on the magazine and its contents or general food for thought are especially appreciated.

ART WORK: For illustrations, black and white prints are preferred, but clear color slides or color prints with good contrast, drawings, maps and charts will also be considered. For Cover Photos, we need clear, sharp 35mm color slides or color

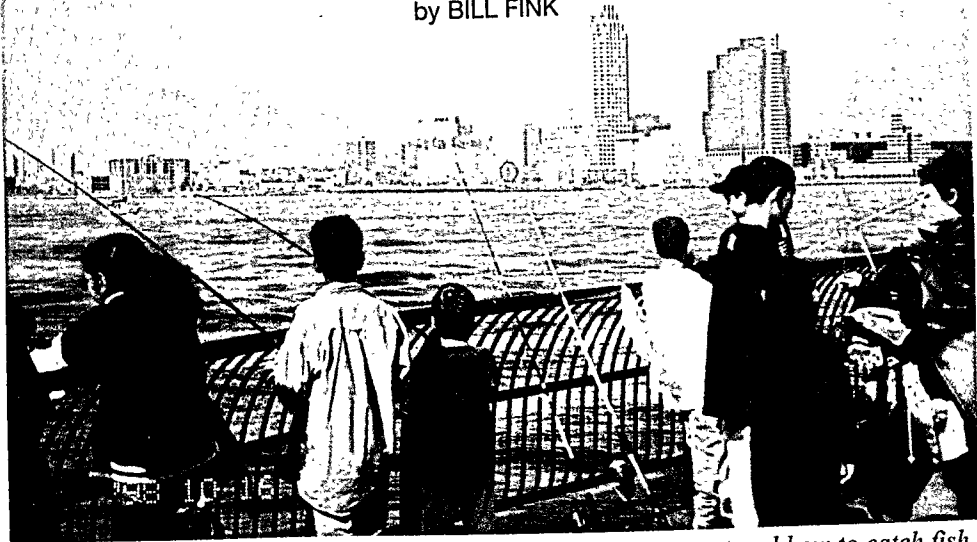
prints, either horizontal or vertical, of littoral subjects above or below the water. Horizontals can wrap around from front to back. Action is not necessary. (Note: Unless otherwise requested, we keep all accepted art work until it is published).

HOW TO SUBMIT: Typed, double-spaced manuscripts, please. If possible, please send a disk with your manuscript. Use common, not Latin, species names. We do not carry footnotes; incorporate sources in your article. We edit for clarity using Strunk and White's *Elements of Style* as our guide and favor clear wording over specialized terminology. Send your work with a stamped, self-addressed envelope; we will acknowledge its receipt.

We do not pay for articles or illustrations, but we do send five authors' copies when published. Thank you for your interest. We look forward to receiving your submission.

Gone Fishing: A Unique Marine Education Program in New York City

by BILL FINK



With a view of Jersey City, kids learn about the local environment and how to catch fish.

It was 10 years ago that Battery Park City Parks Conservancy in New York City quietly began a free marine education and catch-and-release fishing program. From serving a single elementary school in Tribeca, this program has blossomed into a city-wide project that teaches children from all five boroughs, and also includes family programs on five Saturdays throughout the season.

Last year, the school program, which is offered from April to June and again from September to November, attracted more than 30 schools and more than 800 students.

Far more is involved than simply teaching children how to catch fish. Each class takes part in an introductory

The author is long-time member of the Society and a resident of Brooklyn. He is an avid supporter of taking youngsters fishing and introducing them to the wonders of the littoral zone.

discussion about the Hudson River Estuary that includes the history, geography, and ecology of the Hudson. Environmental concerns such as pollution and waterfront development are discussed, and suggestions are made so that students can understand how to actively protect the fragile marine ecology.

A corps of professional staff educators, plus a trained group of volunteer Master Anglers, actively supervise the students as they walk to the railing in Wagner Park, drop their baited hooks, and then wait patiently (or not so patiently) for the telltale bite. Screams of "fish on!" follow, with reeled-in fish winding up in a big, aerated saltwater tank. Thirty-five different species have been caught since BPC Parks began the program. The small hooks that are used have their barbs flattened so injury to the fish is minimized.

Classes review the day's activities before they leave. A staff member shows

Summary of Fish Caught &
Released in 2000

Bergall	953
Striped bass	17
Blackfish	13
Sea Bass	30
White perch	24
Oyster toadfish	11
Flounder	3
American eel	1
Herring	1
Sculpin	4
Fluke	1
Snapper	1
Porgy	3
 Total	 1066

A large number of jellyfish were observed in the Fall and some were netted and placed in the tank.

the children how to make "The Amazing Casting Machine," which is the simplest of fishing gear: a monofilament fishing line wrapped around an empty soda can. At the end of the line a hook and sinker are attached, enabling the fisherman to cast far into the water. Used all over the globe, especially in third world countries, this device shows children they don't need fancy gear to fish. The teacher receives a packet of classroom follow-up materials, and the kids are invited to net the fish in the tank, and return them safely to the river.

When a healthy, good-sized fish is captured, a Master Angler will tag the fish with an ALS tag, and quickly release it. One persistent tagged sea bass was subsequently caught two more times. Is this an endorsement of our bloodworms, or what?

The entire program, including rods, reels, bait, and tackle is absolutely free to

all school children, from grade three through twelve, in public or private schools in New York City. Teachers who would like to schedule a trip should call the BPC Parks programming department at 212-267-9700.

Students, teachers, and parents have sent hundreds of letters, drawings, and photos to the Conservancy extolling the excellence of the program and the knowledge, warmth, and skill of the staff. If you'd like information on how the program is run, or how to start one where you live, call the number above.

If the whole family feels like fishing, check out *Go Fish*, Saturdays, in Battery Park City, which always has musical accompaniment and a children's art project. Look for the fluttering flags at Wagner Park, and the guy in the chef's toque who cuts up bait worms like sushi.



"Fish on!"

A Bad Wind for Sanderlings

by C. ABEL



Sanderlings on the move. Sketch by Edwin Gamble.

It was the first days of December, when I had made for Sandy Hook's north beach in a late afternoon's attempt at striped bass. The wind was cold, in the high 30s and out of the northwest. Two days prior there was a strong east wind. A swell was still noticeable, which sort of cancelled out an attempt at fishing Sea Bright or Monmouth Beach. Coming into the park there were birds working about 1/2 mile off the bridge. I didn't want to stop because the tide was already a couple hours past high tide, and of course I had visions of The Rip with fish assaulting the last bait fish to leave the estuaries. Gearing up at the empty north beach parking lot was a bad omen. Feeling comfortable with the parking spot was out of the question too. The aerial sea gull drops of clams onto the lot seemed heavy.

Once on the beach I wondered if the bass would even be hungry. The wash was loaded with clams of all sizes thrown up by the recent east wind. The fish were certain to be full on clams. My hopes were still high on The Rip so I didn't attempt any exploratory casts along the way or seriously consider fishing clams. So onward I trudge, not the slightest bit concerned about disturbing the mass of gulls. Blackback, herring, ringbilled, I hate them all. Their numbers are so abundant. Their habitual assault upon weaker species disgusts me. There should surely

The author is a lifetime resident of Monmouth County, NJ and longtime ALS member. He is a merchant seaman who spends his free time on the water.

be a hunting season or bounty on them all. Small shorebirds, now that's different. A flock of sanderlings working the surf ahead deserved a wide berth, even if it means slugging along in softer sand. I pray that the flock holds and doesn't waste any energy because of my presence. The smaller shorebirds are probably my favorite bird species. The comical dance of sanderlings at the water's edge makes bird lovers of us all. Not all surf fishermen have bumper stickers that state "Piping Plovers Taste Like Chicken." It was about the third flock of sanderlings that really caught my attention. Four birds looked crippled. I immediately thought "fishing line." A longer look though and I was certain one leg on each of the birds was dragging. Damn. Fuel oil, bunker C. No, whatever was on each leg was white, and almost round. What kind of gunk or trash is that? Damn. That's not gunk or trash...it's a clam. Each bird had evidently stepped into a small open thumbnail-size live clam. One of the millions strewn along the beach. I shook my head in disbelief. Man, nature stinks. It seemed doubtful if the birds would survive. They could still fly, but obviously laboriously. More than enough signal to the opportunistic gulls. What an ugly realization. If there are this many birds crippled on this small stretch of beach, think of the entire coast line. That east wind must of done a number on shorebirds.

Well, as for fishing, no luck at all. Maybe I should have fished clams. Hell, if clams are catching birds, they're sure to catch a striper. □



Book Reviews

CRISIS ON THE COAST: THE RISKY DEVELOPMENT OF AMERICA'S SHORES

by Gilbert M. Gaul and Anthony R. Wood

The Philadelphia Inquirer

147 p.(paper) Write the American Littoral Society, Highlands, NJ 07732. We'll mail a copy postpaid for \$7.

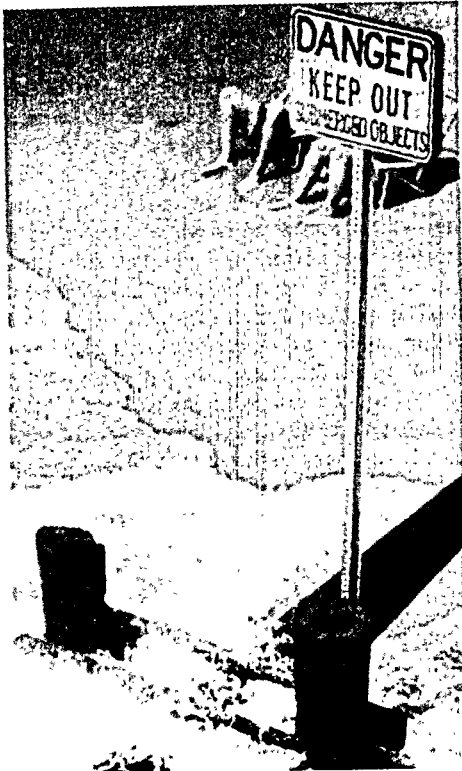
A year ago, these two reporters wrote a series of stories for the *Inquirer* about coastal storms and land impacts. Their jumping off point is the March 1962 northeaster that came ashore on Long Beach Island, NJ, but their story covers the whole east coast, along which they interviewed hundreds of people, many shore residents who fight to save their oceanfront homes from the sea (most

often with public funds). This is a tale of silly home location, greed and selfishness, blissful ignorance, and progress as defined by a second home at the shore.

There are vignettes from Florida and the Carolinas, charts of hurricane tracks across Puerto Rico and up the east coast. There are tales of the Federal Emergency Management Agency bailing out flooded homeowners again and again — in Avalon, which might be the wealthiest seashore town in New Jersey getting 1193 federal dollars to repair its tennis courts after a February northeaster. And the Corps of Engineers comes in for some knocks about its newly found goose that lays golden eggs — seemingly unlimited funds to pump sand on beaches.

This is journalism at its free-wheeling best, full of facts, case studies, and pointed interviews. Their theme is that we're fueling a building crisis near the ocean edge; we're in harm's way — come and get us.

The newspaper tells us several colleges are using "Crisis on the Coast" as a textbook. Good idea.



ISAAC'S STORM

by Erik Larson

Vintage Books, Random House, New York

273 p. \$13.00 (paper)

This is the terrifying story of the September 8, 1900, hurricane that ripped through Galveston, Texas, wiping out the city and killing an estimated 6000 people. Larson tracks the storm from its beginnings on the African continent, across the Atlantic, over the length of Cuba, and up into the Gulf of Mexico to landfall the night of September 8, when 100+ mile an hour winds drove 15 feet of water through town. The hurricane was so strong that it stayed in one piece across Texas, Oklahoma, the Great Lakes, southern Canada, and could even be traced into Russia more than a week after it struck Texas.

But this is much more than a story of the storm itself. Larson collects all kinds of interesting information about hurricane history and theory.

He lists great hurricanes of the past, ones that disabled ship fleets and tore apart Caribbean islands. He describes the hurricane's eye, the sky colors it produces, its spirals, and its energy. And the rain: in 1979 tropical storm Claudette came in off the Caribbean and dumped 42 inches of rain on Alvin, Texas, in 24 hours. Once, Silver Hill in Jamaica got 96.5 inches of rain over four days. In 1899, a hurricane dropped an estimated 2.6 billion tons of water on Puerto Rico, and hurricane Camille came ashore on the Gulf coast in August of 1969 and two days later let loose 30 inches of rain in Virginia. "Camille's rain fell with such ferocity it is said to have filled the overhead nostrils of birds and drowned them from the trees."

Larson writes about storm surges and tsunamis which "travel across the ocean as small humps but at speeds as high as 500 miles an hour. When they reach land, they explode." It's all exciting and frightening.

The Galveston hurricane is called "Isaac's Storm" because Isaac Cline was the Weather Service's man there, and much of the book is about his attempt to track the storm and predict its size and landfall. He has little help from the Service, which was fraught with scandal and jealousy. From Larson's description, the Service was a non-functional bureaucracy, given to much back-biting and post-storm justification. And it didn't help that the Service decided to ignore weather forecasters in Cuba who had nailed the storm early and accurately. They believed that Cubans were less scientific — "too much poetry, too few facts."

One commonly held theory was demolished by Isaac's storm — that Caribbean hurricanes would not get into the Gulf of Mexico, but rather head north along the Atlantic. While storm forecasters in Cuba warned that the storm was

going to cut across the Gulf, U.S. weathermen thought they knew better. They were wrong.

Much of Larson's book describes the three days or so of Galveston during and after the storm, the wreckage, the bodies, the mud, and the stink. But soon the city was rebuilding and there now sits a seawall on the Gulf that citizens seem to believe will protect them. The Weather Service thought the Galveston hurricane was a freak of nature. "Galveston should take heart," they wrote, "as the chances are that not once in a thousand years would she be so terribly stricken." This was written before hurricanes struck or came very near in 1915, 1919, 1932, 1941, 1943, 1949, 1957, 1961, and 1983.

THE GREAT GULF

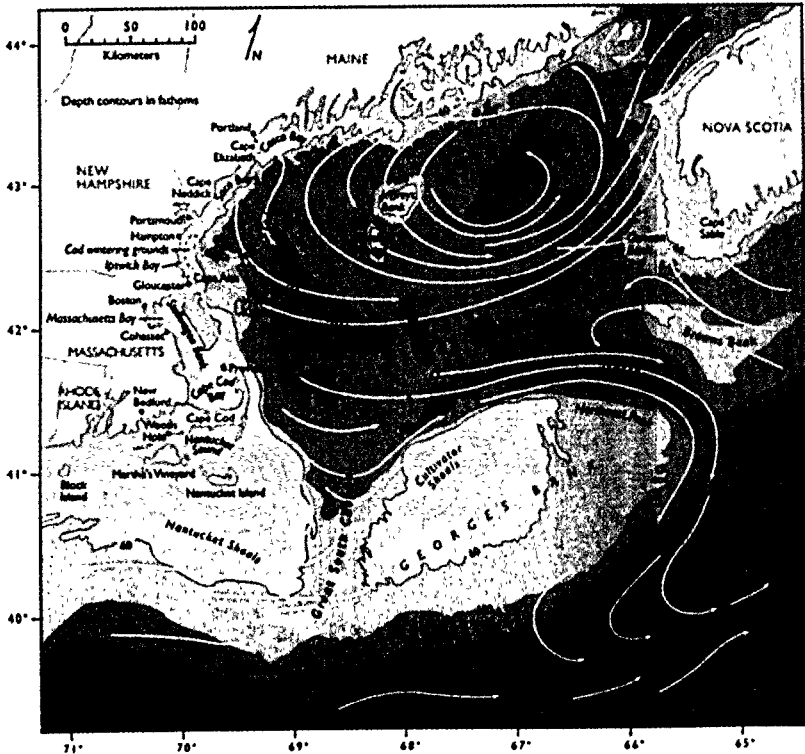
By David Dobbs

Island Press, Washington, DC.
190 p. \$24.95 (cloth)

What do fish do? How many are there? How many can be caught (sometimes called "harvested")? Who knows more about fish, commercial fishermen or fisheries biologists? Dobbs tries to answer these questions and more in an engrossing book about the stressed groundfishery — mostly cod and haddock — of New England's rich waters in the Gulf of Maine and on Georges Bank.

He addresses two "gulfs," the body of water where the fish are or were and the wide misunderstanding between those who catch fish for a living and those scientists whose job it is to count fish and try to establish a safe level of harvest so there are always plenty of fish around to reproduce. It's called "sustainable yield."

Dobbs is a hands-on reporter, and he has picked likely candidates to work alongside of — a commercial fisherman named Dave Goethel and three biologists from the National Marine Fisheries Service — John Galbraith, Jay Burnett, and Linda Despres. His method seems to have been straightforward — hang around and listen. He's good at it. He goes to sea



on research cruises and he joins Goethel to search for herring, talk about cod, and tangle with a netfull of spiney dogfish.

This fishing business is tricky and confrontational. Biologists use a scientific method to count fish — planned but random sampling, lots of counting, measurements, record keeping, and mathematics too complicated for the statistically-challenged layman. Their end product is numerical, and it is passed on to the bureaucrats who polish it up and make recommendations to fisheries management councils who try to regulate fisheries. Commercial fishermen end up with numbers also — how many fish did I catch, what's the price, and how much of that do I need to pay for the boat.

Commercial fishermen argue that biologists aren't counting right: wrong places, wrong nets, poor fishing technique. Biologists argue that they have designed their research to produce useful numbers,

and that their trend lines — down — accurately reflect a fishery in trouble.

There are signs that the two sides are beginning to flirt with each other over the back fence. Scientists now team up with commercials to count fish, and there is often grudging agreement that each side can learn from the other, but Dobbs is not certain whether it's too late to save the treasures of the Gulf of Maine.

WETLANDS IN THE CONTERMINOUS UNITED STATES, 1986-97

by Thomas E. Dahl

U.S. Fish and Wildlife Service
555 Lester Avenue, Onadaska, WI 54650
92p. (paper).

Every 10 years, the Fish and Wildlife Service measures U.S. wetlands losses and gains. This is the most recent study; there's good news and bad.

First, a quiz: what percentage of U.S. wetlands are freshwater vs. estuarine and marine (i.e., saltwater)? The answer is a couple of sentences down. Meantime, read on. For good news, loss of marine wetlands accounted for only two percent of all wetlands loss listed in this study — 10,400 acres — and the rate of such loss was reduced more than 82 percent from the previous decade. On the other hand, freshwater wetlands loss was 633,000 acres, half of that from rural and urban development, the other half equally divided between agricultural and forestry conversion.



This study is filled with tables, charts, graphs, and excellent photography, including great aerials of emergent wetlands and migrating sand spits. This is a good resource document with plenty of references. And the answer to the question above: 95% of U.S. wetlands are freshwater.

TUNA

by Captain Bill Smith

Burford Books, Shorth Hills, NJ.
229p. \$30 (cloth).

Subtitled "An Angler's Guide to a Great Gamefish," this is Captain Smith's ode to the tuna, along with descriptions of different tunas, how to find and catch them and how to release them or ice them down for the trip home. This is a boat fishery, mostly from Cape Hatteras north to Nova Scotia — Smith fishes from Montauk on the eastern tip of Long Island and he's caught some big tuna.

Tuna have been described as swimming muscle inside streamlined skin. Bluefin get to 1000 pounds, yellowfin to 350. They can chase down almost anything that swims; they are one of the few fishes that can increase their body temperature. Their fight when hooked is legendary; there is a story about a bunch of strapping policemen who took a tuna charter from Point Judith, RI, and hooked so many yellowfins they blew out their arms.

It's obvious Smith loves tuna. This book shows it. □

MORE EASY ANSWERS TO TOUGH QUESTIONS

Loyal readers of this journal keep flooding us with questions — both interesting and mundane. On the theory that all deserve equal attention, here are the answers:

Q: How can you tell a birdwatcher from a fishwatcher?

A: This is an easy one. First off, birdwatchers wear flannels and tweeds, and carry expensive binoculars. Their brown tweed jackets are likely to have brown elbow patches. Many male birdwatchers smoke pipes; they often have prep school accents. Female birdwatchers wear sensible shoes with thick soles. They are still struggling to catch up to their male counterparts. On the other hand, fishwatchers are usually scantily clad, never in tweeds. In cold weather they look like black rubber manatees — cold birdwatchers look like overstuffed sausages. Fishwatchers work at low altitudes, often below sea level; bird people stay dry. Piscatorial explorers drink beer; bird people lean toward martinis. By the way, birdwatchers hate that appellation, preferring the term “birders.” Following this pattern, fishwatchers should be called “fishers,” but a fisher is an aggressive, weasel-like mammal that chases down squirrels in trees. A fishwatcher is seldom up a tree.

Q: Many living things in groups have special names like a “pride” of lions” or a “flock” of ducks. Are there similar names for collections of marine life?

A: Indeed there are, some quite colorful: a “hunkering” of horseshoe crabs, a “struggle” of striped bass, a “cumulonimbus” of plankton, a “threat” of blue crabs, a “pudding” of jellyfish, a “flatulence” of flounders, a “snap” of bluefish, and a “shock” of sharks. I could go on, but why bother?

Q: What’s the difference between ebb and flow?

A: Ebb means going out, like a tide, but going out with Flo was something else. She moved like silk, her bobbed blonde hair bouncing gracefully. She dressed to kill. Her smile lit up any room; her laugh was deep and throaty. I guess you could say she was the catch of the day. She was in our midst for a spell, and then the lady vanished.

Q: If a person who digs clams is a clammer, what do you call a person who rakes oysters?

A: Ha. Thought I was going to say oysterer, didn’t you? Wrong. In today’s complicated world, a person who rakes oysters is called an oysterperson. Bonus information at no extra charge: the person who buys oysters from the oysterperson to sell to retail stores is called the middleperson or robber.

Q: Do shorebirds that run along the beach ever get hit by waves?

A: Seldom. Shorebirds are too smart. Ever seen a stupid shorebird? Your question reminds me of a related shorebird story, to wit. It is a little known fact that some shorebirds surf. Sam, the surfing sanderling, made a board out of a styrofoam coffee cup and placed third in the Nationals at Rincon, Puerto Rico, in 1987.

Q: Whenever I build sand castles at the beach, the darn tide comes in and washes them away. Is there anything I can do? (I’m 11 years old.)

A: And one day you’ll be 12, and soon you’ll have your driver’s license; heaven help us all. Of course there’s a way to protect your sand castles. Call in the Corps of Engineers. Remember the Corps motto: “Salve Castalinni Childo.” Finally, 11-year-old, might we suggest you spend less time on your scooter and more time hitting the books.

That’s it for now. Keep those questions pouring in. Next Issue: What makes a dino flagellate?

D.W. Bennett

THE AMERICAN LITTORAL SOCIETY'S OSPREY CLUB

What is the Osprey Club? The Osprey Club is the kids-only chapter of the American Littoral Society. Osprey Club members will receive a membership card and special mailings throughout the year (posters, stickers, newsletter).

Who can join? For the \$5 membership fee, any kid (we suggest ages 5-12) can join, as long as a member signs them up.

Why join? As members, kids will receive interesting and fun information on the littoral zone that is created for them, so their appreciation of our coastal environment will grow.

How do you join? If you are already a member, send in the following information: your name, the child's name, address, age, and any special interests they might have. If you are not a member send in the membership form from page 17 with the above information. Send along with \$5 per child to:

American Littoral Society
Sandy Hook
Highlands, NJ 07732
Attention: Osprey Club



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