In some form or another, Coastwatch has been in existence since 1974 — 43 years.

It started out as a four-page, monthly newsletter, renamed Coastwatch in 1979. In mid-1991, Coastwatch became a two-color magazine with a cover. Color inside was slowly added until the publication became full color with the Autumn 2004 issue.

Here, we look at past stories as the newsletter transformed into the publication it is today. Voices speak out to us from the pages. Shared experiences are new again.

Some things never change — invasive species, hurricanes and managing coastal resources always will be hot topics. And the fishing world constantly adds new technology, although what was cutting edge in the mid-1980s might seem simplistic today.

We developed this album of sorts to share what we found on our walk down memory lane.

In our Spring 2017 issue, we'll look ahead as well as back at the North Carolina Sea Grant program, hearing from former staff, partners and researchers. Also, look for an article from Vanda Lewis, Sea Grant food blogger, with recipes from earlier issues of Coastwatch.

Do you have a favorite Coastwatch article? Or can you recall a significant interaction with our program? Please send your stories to eching_lee@ncsu.edu. We want to hear from you.

Coastwatch has changed over the years.

- 1. Front page of the first newsletter, May 1974.
- 2. First issue with the new name, Coastwatch, March 1979.
- 3. The magazine got a cover in the early 1990s.
- 4. Then color was introduced, cover May/June 1992.
- **5.** New elements continued to be added, cover High Season 2005.
- 6. The look continues to evolve, cover Summer 2016.



University of North Carolina Sea Grant Program

NEWSLETTER

Sea Grant serves you:

New morsels for your seafood platter

Tuna seems to show up everywhere. The hungri-est, dirtiest construction worker gobbles down a couple of tuna sandwiches for lunch. And tuna salad is an old standby at ladies' dainty teas.

But watch out, tuns. It's possible that before iong, wives will pack amberjack sandwiches for hubby's lunch and ladies will top off the lettucation with something called white grunt salad. Restantiation and particular control of the lettuce and the salad sal

Amberjack, white grunt and barracuda—all aught by "Grash fishermen off North Carolina's coast or years. "Trash fish" they called them—then surled a curse and dumped them back.

But with the world's stomach growling for pro-tein and with an eye toward spurring the economy of deprived coastal areas, folks began wondering about turning "trash" fish into useful foods.

They also put their minds to improving the above their minds to improving the servesting, handling and processing of seafoods people have eaten for centuries. But making more and the meant setting up lines of communication between the men who catch more process seafoods and engineers and scientists who test and design new methods.

new methods.

That's where Sea Grant stepped in. Sea Grant is a University of North Carolina program that is a University of North Carolina program that gets money from the U. S. Department of Comgets money from the U. S.

merce's National Oceanic and Atmospheric Administration (NOAA) and the N. C. Department of Administration. Part of Sea Grant funds support research aimed at developing coastal and marine resources in an environmentally sound fashion.

resources in an environmentally sound fashion.

But Sea Grant is equally anxious to get research results to people who can profit from them. That includes everyone from the guy setting the nest to the businessman enting crabcake. For that reason a portion of Sea Grant funds are channeled into something called "advisory services." The men something called "advisory services are messens in advisory services are messens in advisory services are messens in advisory services are messens to translate research findings into information that can be put to use. In turn they take questions posed by coastal residents back to the lab for answers.

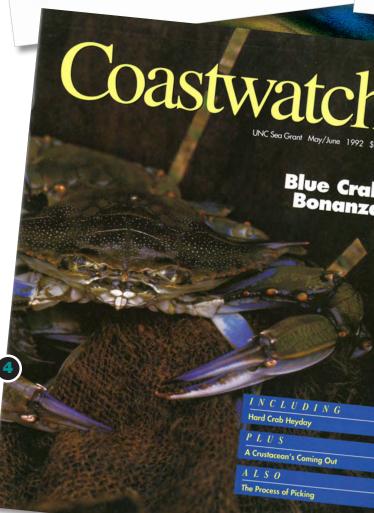
In North Carolina. Sea Grant advisors.

lab for answers.

In North Carolina, Sea Grant advisory services does three jobs. Engineering advisory services deals with gear, helping fishermen and shrimpers with harvesting and handling the catch on board. Seafood science and technology flows the catch from dock to consumers. And a continuing education program keeps commercial fishermen up to date on the latest equipment, how to use it and running a business.

In the future Sea Grant advisory services aims

(See "Better Use," page 3)



Revisiting The Lower Cape Fear

INCLUDING

Wilmington's Bright Future.

Beaches With Character.

COMMUNITY

COLLABORATIONS: Bridging Coastal Economies and Ecosystems

ALSO Legend And Lore.

Coastwatch

The 200-mile limit: slowly but surely taking hold

If a been about two years since the It's been about two years since the Fishery Conservation and Manage-Fishery Conservation and Manage-Fishery Conservation zones has become an accepted international standard. In the United States (US), the act's major effects have been two-fold.—Forcing fishing within 200 miles of US shores has decreased by 27 percent, according to John M. Murphy-chairman of House Merchant Marine and Fisheries Committee. In fact, on the East Coust, foreign vessels have taken catches well below their allocations.

Demostic fishing, according to

tions.

—Domestic fishing, according to Representative Murphy, has increased by 8 percent. Observers say the increase in domestic fishing will be

2.50

the gradual because some of the fisheries must rebuild.

But fewer than 10 of the more than 70 ishery management plans being developed by the eight regional man-70 isher management plans being developed by the eight regional man-70 isher management plans being developed by the eight regional man-70 isher management plans being agement councils around the country for the proving a segment councils around the country for management plans were drawn up to exclude or reduce foreign fishing in jeopardized fisheries.)

The plans, which are drawn up to manage fishery resources for individual species, affect recreational as well as commercial fishermen. Seven plans are commercial fishermen. Seven plans are fishery Management Council, which

has jurisdiction from North Carolina has jurisdiction from North Carolina has to the eart cast of Florida. "Most of them are really going to affect recreational fishermen," says Ed McCvo of the North Carolina Division of Marine Fisheris and a member of the South Atlantic council.

Many fishery resources are at or Mary fishery resources are at or Enice Premet, executive director of Enice Premet, executive director of Enice Premet, executive director of the South Atlantic Fishery Management Council. The stocks for which here is most concern are billish, swordfish and some species in the sapper-grouper and precise in the supper-grouper and precise in the supper-grouper and primarily recreational.

With the exception of the billish.

precess. I nose insueries are primarily recreational.

With the exception of the billfish fishery, there has been little foreign ac-



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AQUARIUM ATTRACTIC

North Carolina Sea Grant Staff: This early Coastwatch issue introduced readers to the Marine Advisory Service, now known as our extension staff, and the communications team. What we do hasn't changed.

1. These marine advisers make Sea Grant more than research.

They're extension agents who translate scientific and technical information into layman's terms. Then they make sure that information gets put to use.

From "Meet the Crew," November/December 1986.

2. As Sea Grant's communicators, information is our job.

We're liaisons between coastal North Carolina and you — tourists,
fishermen, scientists, businessmen. Our main goal is to give you a better
understanding of the marsh where you dig for clams, the dunes you cross on
your way to the beach, and even the seafood you eat.

From "Bringing you Information," November/December 1986.

Aquaculture: Sea Grant has been involved in aquaculture since the 1970s. It started with hybrid striped bass.

- **3.** Already North Carolina has a flourishing aquaculture industry.... But Sea Grant researchers think there is an even more promising culture candidate. The striped bass hybrid offers culturists a hardy, fast-growing culture species. From "Aquaculture," June/July 1985.
- 4. They call it squeezin' season.

Every spring Sea Grant Associate Director Ron Hodson and North Carolina State University zoologist Craig Sullivan become midwives, directing the birth of thousands of hybrid striped bass fingerlings.

From "Secrets of Striper Spawning" by C.R. Edgerton, July/August 1991.

5. And the fish still are spawned in Aurora, where it all started.

Sea Grant also has had other aquaculture efforts, including:

- 6. Soft-shell crabs, September 1980.
- 7. Clams, Winter 2001.
- 8. Southern flounder, Winter 2003.
- 9. Black sea bass, Early Summer 2003.

And, of course, oysters.

10. If you develop it — and if you seed it — perhaps they will come. That's what some University of North Carolina Wilmington scientists hope their research will do: Build the oyster aquaculture industry in North Carolina.

Seed funding from North Carolina Sea Grant has jumpstarted two projects that could help the state achieve this goal.

From "Planting the Seeds for a Common Wealth" by E-Ching Lee, Autumn 2015.





Aquaculture



Field Notes















PLANTING THE SEEDS FOR A COMMON WEALTH



Invasive Plants: A quick scan of *Coastwatch's* pages shows that invasive plants such as European watermilfoil and Hydrilla verticillata have been taking root in North Carolina for decades.

1. Since its arrival milfoil has snarled fishing lines, gummed boat motors, tipped sailboats and provoked quarrels between the bass sport fishermen who think the milfoil helps fishing and the residents and commercial fishermen who think milfoil is a pain in the neck.

From "Creeping and Crawling on Currituck Sound: The Dilemma of Eurasian Watermilfoil," September 1976.

2. A fast-growing Asian perennial aquatic plant, Hydrilla has spread across North Carolina — costing millions of dollars in control efforts. Because the state recognizes Hydrilla verticillata as a noxious aquatic weed, it is illegal to import, culture, transport and/or sell it here. Federal regulations ban importation to the country as a whole.

From "Albemarle's Invader: Hydrilla Identified in the Sound" by Katie Mosher, Winter 2011.

3. Kathleen Angione writes about beach vitex in Spring 2006. In Autumn 2010, Pam Smith lists crested floating heart, mile-a-minute-vine and cogongrass.

People We Met: Coastwatch also introduced us to extraordinary individuals with compelling stories to tell.

4. Carla Burgess met Haywood Graham and Floyd Pollock in Wilmington.

Ask them where television newsman David Brinkley used to live in Wilmington, and you might see their arms pointing in more directions than signs at an intersection. Consensus is not an issue at Pollock's Shoeshine.

From "Swapping Stories of Old Wilmington" by Carla Burgess, May/June 1991.

5. When it comes to crab picking, Llewellyn "Miss Lue" Lewis is a

Matriarch of the Luther Lewis & Son crab plant in Davis, she has taken many a novice under her wing.



"You learn by doing," says Miss Lue. At 83, she is a small, strong woman with a round face and smiling eyes.

From "A Lesson from Miss Lue" by Katie Mosher, July/August 1994.

6. Muzel Bryant was born in Ocracoke on March 12, 1904, and passed away at the age of 103 on Feb. 18, 2008.

Despite the astounding changes in technology, world politics and culture during her lifetime, Muzel takes things in stride. "Well," she admits with her shrug, "there have been a lot of changes."

From "Celebrating a Century: The Life of Muzel Bryant" by Kathleen Angione, Autumn 2004.

What's Old is New Again: Some topics never grow old, such as:

7. Algal blooms and human health.

The blooms are affecting the biological makeup of the river, and may ultimately affect what goes on downstream in the estuary — the estuaries that support our fisheries.

From October 1983.

8. Recreational fishing.

Although anglers have no trouble catching king mackerel and spotted trout today, tomorrow may be a different story.

From "Fishing for ways to improve catches," March 1985.

9. Charismatic megafauna, such as sharks.

The sounds, estuaries and ocean waters in and around North Carolina provide a variety of habitats for water-dwelling species, including an abundance of sharks.

From "Sharks of North Carolina" by Chuck Bangley, Spring 2014.

10. Coastal economies and traditions, as seen through the eyes of coastal residents such as Mike Fulcher, owner of Clayton Fulcher Seafood Company in Atlantic.

"We are closing down," Fulcher says. "We are cleaning the equipment and selling it. I hate this, but we don't have enough fishermen."

From "Oral History: Documenting Down East Traditions" by Ann Green, High Season 2007.

Hurricanes: Coastal communities have weathered storms with Sea Grant by their side.

1. In 1977, this newsletter noted that the last hurricane to hit the coast was Donna in 1960.

But according to the National Weather Service, that pattern of good luck may be changing.

From "It's hurricane season again," June 1977.

2. Spencer Rogers, Sea Grant's coastal construction and erosion specialist, has been a key player in the program's response.

Rogers is an old hand at assessing building damage from hurricanes. He's surveyed the structural damage from every hurricane that has struck the East and Gulf coasts during the last 21 years.

From "After the Storm" by Kathy Hart, January/February 1997.

3. The magazine recalled how Hurricane Floyd destroyed Princeville in 1999.

There are no mementos of the Flood of '99 in the Odeh family's convenience store in the small Edgecombe County town of Princeville; no water marks, signs or inscriptions on the building to show how high the water climbed when the Tar River breached a dike and swirled into town.

From "After the Flood: Rebuilding and Retreating" by Jerry Allegood, Autumn 2009.

- 4. Sea Grant has gathered decision makers, scientists and coastal residents to learn from events such as Hurricane Irene.
- 5. And we've helped the state look to neighboring states for lessons, such as from Hurricane Katrina.
- 6. The disasters during 2016's Matthew quickly drew comparisons to previous storms.

Eastern North Carolina knows by heart a lesson learned from Floyd's floods: Recovery is a long-term prospect. Residents, along with government officials and the state's Hurricane Matthew Recovery committee, expect a similar scenario moving into 2017.

Sea Grant already has been working with several coastal communities to use tools and processes that consider the potential for increased flooding from storms, as well as other existing or anticipated conditions.

From "Matthew's Legacy: Water Falling and Rising" by Janna Sasser and Katie Mosher, Holiday 2016.

7. Matthew's floods affected many communities — such as Princeville and Kinston — that were hit hard by hurricanes Fran in 1996 and Floyd in 1999.

Turn to page 28 as we continue to follow Matthew's story.







