A Different World

SOME FAVOR THE OCEAN'S EXOTIC SURROUNDINGS FOR BOTH WORK AND RELAXATION, SPENDING MUCH OF THEIR TIME FULLY IMMERSED.

by Mary Cypress Howell

Mother and daughter Anne and Caroline Hasson explore wreckage in the Caribbean. t's not like jumping into a swimming pool—it's like jumping into a different world. Diving deeper and deeper, you're greeted by a rainbow of fish and curious sea turtles. While coming face to face with the smallest seahorse and the largest whale may be strange encounters for most people, for some University of Alabama students and alumni, this underwater world feels just like home, as their favorite setting for research and recreation.

One of these undersea enthusiasts, certified scuba diver Anne Davis Hasson, along with her husband, Wayne, wanted to make diving available for others to enjoy. The couple developed the first fleet of "liveaboard" scuba diving yachts.

Located in the best diving spots, the Aggressor fleet has yachts stationed at various locations around the world. From Belize to the Cayman Islands to Hawaii and more, these vessels allow divers to experience all types of marine environments, according to Hasson, who attended the University from 1978 to 1980.

"I've seen everything from 40-foot whale sharks to tiny sea horses. At Bloody Bay Wall in Little Cayman, you can see friendly turtles, sharks, stingrays, crabs and huge lobsters," she said. "There are areas around the world that are getting fished out, but at places like this you can see everything."

At Cocos Island, Costa Rica, hammerhead sharks and whale sharks abound, and divers are sure to encounter big animal action, according to Hasson. "Diving with hammerhead sharks is really exhilarating," she said of this location, where her mother has even dived with her. "The sharks are pretty skittish. They are not attackers like a lot of people think."

But these diverse diving opportunities aren't what sets the Aggressor fleet apart from others—it is the concept of having guests live on board the boat during their diving expeditions. In 1984, after a decline in the oil industry, the Hassons encountered a man who was looking for a buyer for an oil-field boat. With experience in scuba diving and boat



building, the couple decided to renovate the vessel into a livable dive boat. "We thought we'd do one boat," Hasson said. "We never dreamed it would be a fleet; but one led to another, and it grew from that."

The Hassons revolutionized the live-aboard diving boat. "We were the first real innovators of live-aboard scuba

diving," she said. "We took it from being a boat that people spent a week on with two shower heads and bunk beds, to a vachting business." In honor of this distinction, and of her efforts to spur the growth of the industry and her innovative programs to keep divers diving, Hasson was inducted into the 2010 Women Divers Hall of Fame.

And the Aggressor fleet is not just

one of the boats during the sevento 10-day trips. offered once a year, where anyone 5 vears old and up vounger children can snorkel while the older ones train to become certified in scuba

diving. With a high-repeat clientele, Hasson said they try to offer other activities as well. For instance, instructors are available to teach underwater photography on each of the boats. Along with being a photographer herself, Hasson is also an underwater model, and has been featured in many magazines, including National Geographic.

for experienced divers. Anyone aged Aggressor fleet goes even further, as a to monitor its health," Midkiff said. "If

10 years old or up world leader in preserving the oceans. can come on board In partnership with Jean-Michel Cousteau's Oceans Futures Society, it offers and learn to dive programs to teach experienced divers about important ecological and biological concepts. The society, headed A family week is by the son of famed ocean explorer and scientist Jacques Cousteau, has a mission of exploring the global ocean in order to inspire and educate people can join in. The to act responsibly for its protection. The Aggressor boats also establish reef moorings to help with underwater conservation.

> The Hassons are not the only divers concerned with the status of the life below sea level. Carl and Elizabeth Midkiff, who own the CoCo View Dive Resort on the island of Rotan, Honduras, often hear concerns about the health of the reef in their area.

Over the next few summers, Carl Midkiff, a 1971 UA graduate, plans to host interns from his alma mater to conduct research of the reef. "Rather than sitting around talking about the In addition to these services, the reef, organized efforts need to take place



came up that this would merge perfectly quality surveys. "One of the requests with marine science at UA."

Olson, an associate professor in the environment and the health of it," UA biological sciences department, to establish an internship for students to

the reef declines, business declines; so it do hands-on biodiversity and waterof Elizabeth was that people who come The Midkiffs contacted Dr. Julie are divers, have an interest in marine Olson said.

Julia Stevens, a first-year graduate





student in biological sciences, will be leaving the Capstone this summer to stay at the Midkiffs' resort and study the local reefs. "I applied to this program for the opportunity to do field work in my area of research. Julie Olson's coral reef surveys are an important method for the monitoring of reef health, and more specifically the presence of coral disease," Stevens said. "I am anxious not only to learn the field methods, but the stressors affecting this important ecosystem."

Interns in the program will also be required to give presentations to the guests of the resort, educating them about the reef in 20-minute talks about coral diseases, what happens when an organism not native to the environment gets loose, and more. "It's a fantastic opportunity to get hands-on experience in a beautiful environment," Olson added.

Stevens said she is excited about doing research in one of the largest reef systems in the world, plus all the scuba-diving experience. The CoCo View Resort boasts some of the best

Sea urchins and starfish decorate the ocean's floor. Inset: Julia Stevens in her UA lab Lower right: Robin Cobb on the deck of Pisces

diving and snorkeling in the world, Carl Midkiff noted. It is located on the reef, so guests can dive 24 hours a day without needing transportation out onto the water. And twice a day a

boat is available to take divers to neighboring reefs.

Interns can also join resort guests in other activities, such as visiting the mainland to explore Mayan ruins, taking a zip-line through the mountains, riding horses around the island and technology. Robin Cobb, a marinewhite-water rafting.

ence for the interns, the program will ated a joystick to remotely direct a greatly benefit the resort, according to research submarine as it hovered above Midkiff, who said he would hate to see anything happen to the reef. "Their 3,000 feet below the surface. Cobb knowledgeable input about wildlife and traveled on the ship Pisces, from April the health of the reef gives us detailed, 8 to 14, with scientists from six other authenticated results," he said. "And institutions, using an unmanned subthe student has full exposure on a day- mersible to study the deep-sea corals. to-day basis of what they're doing before The goal of this National Oceanic and

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world."

Olson will accompany Stevens at the resort for the the ocean's floor. first week to set up transects that will be used for many vears to measure the quality of the

water, biodiversity, and coral and fish surveys, and to determine which dangerous bacteria are present.

Another UA student is involved in underwater research, but without getting wet-she enlists the help of high science graduate student, recently Along with being a valuable experi- returned from a cruise where she operthe Atlantic Ocean's floor, some 2,000-

entering the real Atmospheric Administration program was for researchers to have an opportunity to collect exotic corals and photograph other rarely seen organisms on

> Cobb's UA advisor and research mentor, Dr. Fred Andrus, assistant pro-





participated in similar NOAA expeditions to deep-sea coral grounds off the the ocean depths where they typically coast of Georgia. Deep-sea corals and fisheries are areas of profound concern detective work, he said, but the sleuthfor NOAA, he said, because humans ing is in an exotic environment. "This are beginning to have major impacts is like working on the surface of another on them.

He and Cobb are studying rare Stylasteridae corals, found in very deep, cruise, the current was too strong to get cold waters, far below the level where the coral samples she was hoping for. peratures," she said.

light can penetrate. "They don't fit the general knowledge of corals, but they play a role in fish that are commercially important," Andrus said. "They record chemical information, and if we can figure out the chemical language they speak, we can measure chemicals in their fossils and see the way it has changed over time."

Andrus explained that although the corals can give important clues to deep ecosystems, nobody before has made long-term observations

fessor of geological sciences, previously of them, as few are found in shallower However, she was able to collect fossils waters, and humans cannot survive in and water samples that will aid in their grow. These excursions are a lot like planet," he added.

Cobb reported that during the

research.

This new material, added to past collections, will expand their knowledge when Cobb interprets her findings this summer. "It's hard to get any deep-water information, and even water samples can be used to determine if we can use corals to determine ocean tem-

> "[Robin] is seeing that these corals grow significantly different from any other coral we've seen," Andrus said. "It seems that the interpretation of any data is going to be far more challenging than we thought."

Cobb plans to do research on another cruise next fall, and until then, she will continue working with the samples at hand in an attempt to translate the coral's chemical language, deciphering the mysteries of the underwater world.