

[www.hazelettmarine.com](http://www.hazelettmarine.com)

Tel 802-863-6376

**Hazelett  
Marine**

Inspiration and  
leadership in  
marine  
conservation.



### Chain moorings disrupt the development of eelgrass.

Jason Hale, a biologist with the University of Florida's Institute of Food and Agricultural Sciences on sea grass:

"There are about a half dozen functions that scientist credit to sea grass," Hale said, "One of them is habitat, a place to hide or live or forage. Another is food for a variety of marine creatures. And sea grasses help improve the water clarity by filtering particles from the water around them."

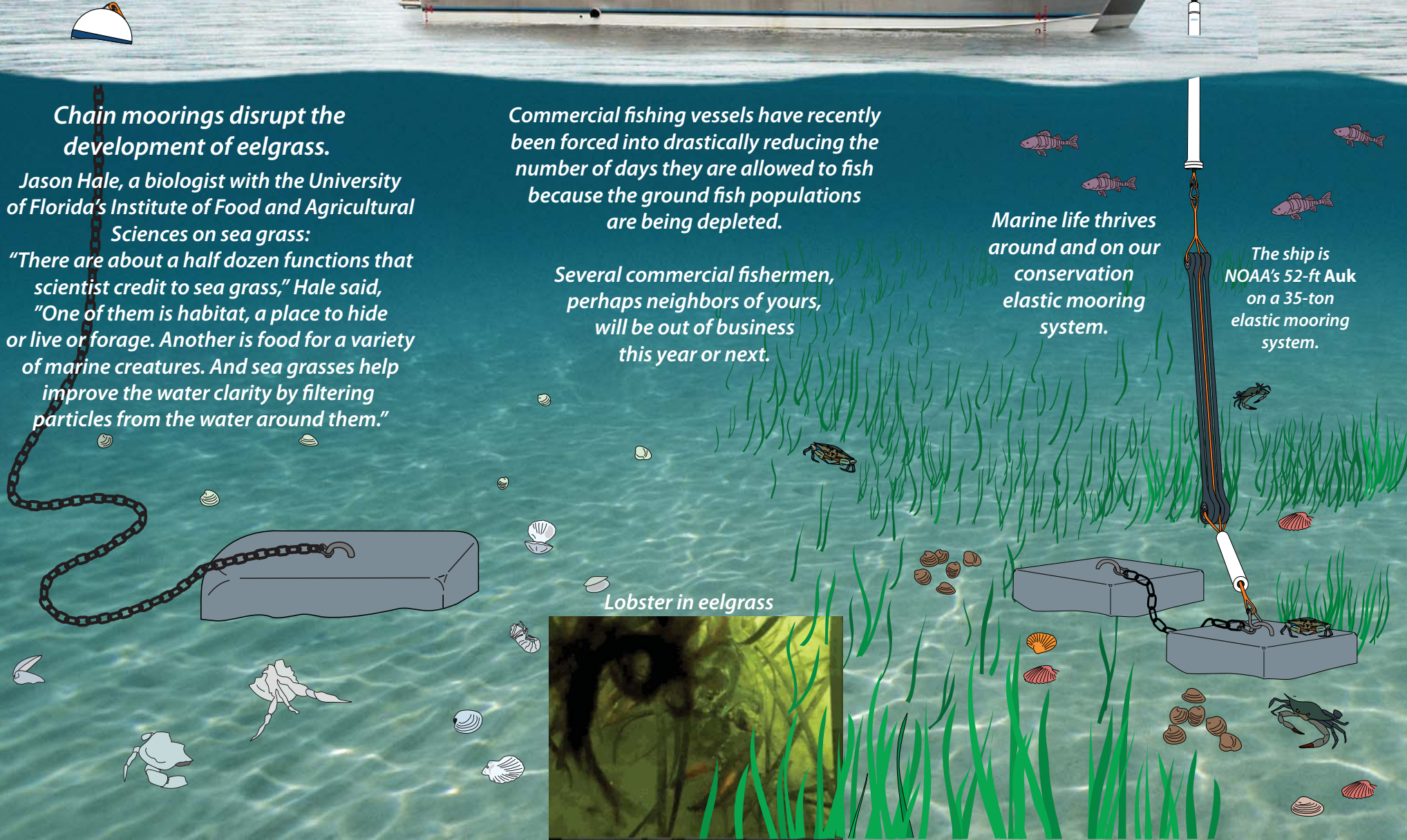
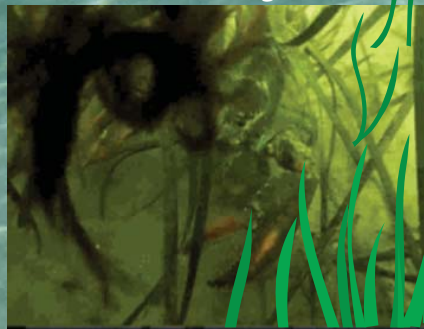
Commercial fishing vessels have recently been forced into drastically reducing the number of days they are allowed to fish because the ground fish populations are being depleted.

Several commercial fishermen, perhaps neighbors of yours, will be out of business this year or next.

Marine life thrives around and on our conservation elastic mooring system.

The ship is NOAA's 52-ft Auk on a 35-ton elastic mooring system.

Lobster in eelgrass



*“Moorings--specifically mooring chains--  
impact eelgrass throughout  
Massachusetts, either through direct  
disturbance or by increased turbidity  
by the chains bouncing off the bottom  
(which is bad for eelgrass).”  
Anthony R. Wilbur, Marine Ecologist  
Massachusetts Office of  
Coastal Zone Management*

LOA = 52-feet  
Displacement = 32-tons  
Cost = approximately \$1.2 million



***Keeping the research ship Auk  
secure is very important.  
Using a Hazelett Marine  
elastic conservation mooring  
for security is very smart.***

This is a drawing of the mooring system  
used by NOAA's research ship Auk.

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Marine**

7-ft spar buoy

The white rope is used  
to pull the system  
down to the block.

1.25-in. dia. Yalex  
61,000-lb test  
1-in. galv shackle



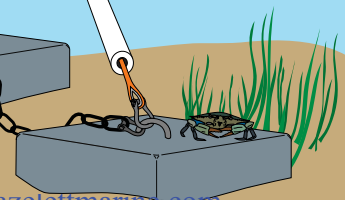
The connection is  
then made.

Four Hazelett  
Marine elastic rodes

The system is floated  
6-ft off the block to  
accommodate the  
12-ft tide.



Two 4000-lb  
blocks.



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**Marathon, Florida is home to Lily Pad a 52-ft, Troy Lee design, 23-ton ketch.**

**The family was on board when the edge of Dennis hit with 60 mph winds. A few ships found the shoreline but, not Lily Pad.**

**The family was not on board in the fall when Wilma hit head-on at 101 mph and 4-ft to 6-ft waves in the harbor.**

**Lily Pad had minor damage to the bow sprit where it appeared to fend off other boats that had parted their moorings or dragged their anchors.**

*Real soft spar buoy cap*

**Lily Pad uses a Hazelett Marine 25-ton rated elastic mooring system. The use of a bow eye will protect the pendant and provide better security.**

**Hazelett Marine does not guarantee your boat will survive severe weather encounters, but you can increase your lucky days by mooring your boat with superior technology.**

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**This is a representation of success by one of our customers that did not have the option to haul their boat.**

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There are optional spar buoy caps available to protect your boat's finish (not shown here)

Pendant loads are normally reduced by 75% when using the Hazelett Marine Elastic Mooring System.

The short scope of the elastic mooring system produces high holding force early when the boat starts to move. This holding force is higher than chain produces when a boat starts to move.

However, the total holding force produced with the elastic mooring system is lower than the force produced when a rapidly moving boat reaches the end of the chain slack.

**Hazelett Marine 5-ton rated single rode elastic mooring system**

HM makes a 1.25-inch dia forged corrosion resistant, galv anchor bail for \$35. Concrete blocks cost approximately \$10/100-lb.

2000-lb out of water weight block required or 1000-lb in water weight.

The S/S swivel and pendant are included with our system.

The Hazelett Marine spar buoy moves very little in any type of wave action. Very little motion relates to less wear on any of the parts.

Our standard system tensile strength is 24,000-lb using Yale Cordage rope. We offer rope options to 110,000-lb tensile strength using 1-inch Puget Sound Plasma rope.\*

The Hazelett Marine elastic rode is made of polyurethane in the USA. This polyurethane formula gets better with age.

Hazelett Marine uses oversize hardware made to our specifications with low corrosion steel and then galvanized.

**Hazelett Marine 16-ton rated double rode elastic mooring system**

\*1-inch Plasma rope is stronger than 1-inch Navy chain. It is very chafe resistant and better used in pendant applications.

4000-lb out of water weight block required or 2000-lb in water weight.

**Hazelett Marine**

Security Forces You Can Trust

Lowest Maintenance in the Industry

## The Hazelett Marine Elastic Mooring System

Lowest Wear on Major Components

Higher Holding Forces Than Chain

Twenty Year Useful Life Expectancy

The Best Engineered Elastic Mooring System in the Industry.

**Hazelett Marine 25-ton rated triple rode elastic mooring system**

Helical anchors will also work with the Hazelett Elastic Mooring System.