



CLASSIFIEDS



Members may place free non-commercial classified ads with photo for three months.

All ads must be fishing, boating or marine related.

Member repeat ads: \$5 per ad, per issue. Non-member ads, commercial ads: \$10 per issue.

Send ad info to editor@risaa.org or mail to RISAA, P.O. Box 1465, Coventry, RI 02816

BOATS FOR SALE

14' MirroCraft Deep Vee, 1993 with a 9.9 HP Mercury 4-stroke, 2014, bought new 6/16, never been in the water. Boat incl seats, depth sounder, trolling motor, Minkota battery, accessories. Includes 1984 Holsclaw trailer, new tires/wheels; have title. Asking \$3,200. Call 401-762-9158.

17' Triumph CC, 2004, w/70 HP Suzuki 4-stroke. Runs beautiful, clean, great fishing boat. Includes E-Z Load trailer. \$7,000. Call Tim at 401-294-4592

17' Trophy center console, 2002, w/90HP Mercury Saltwater and trailer. New cover. Proper winterization/maintenance annually. Includes 8' Walker Bay dinghy. More pics available. \$8,000. Contact Fred at 401-295-9606 or email fkollingiv@gmail.com



INFLATABLES

10' 6" AB Inflatable, 2003, fiberglass bottom, with Honda 15 HP short shaft OB, and Karavan galvanized trailer. Boat & outboard have storage covers. Bought and put away for future use, but never used or put in water. Must see, senior owned. Replacement value \$7806, will sell for \$4,900 FIRM. Call Terry at 401-598-7850

BOATS FOR SALE

21' Hydrasports 212 CC, 2002, 8' 6" beam w/ 2001 200HP Johnson OB (new in '02). T-top w/electronics box, rod holders, Garmin GPS fish finder, VHF, live-well, SW wash down, trim tabs, dual batteries w/ switch. Pro maintenance before each season. Includes 1997 5 Star dual axle trailer. All great condition. \$13,500. Will consider trade for the right 17' to 18'. Call Joe at 401-413-0264



21' Seaswirl Stripper 2010 WA, 2004, w/2004 Yamaha 150 HP 4-stroke, 610 hrs, new lower unit fall 2016. Bimini top w/full encl. GPS, VHF, dual batteries, 30 gal live well, RW washdown, portable, Dealer maintained. Turnkey, bottom painted, ready to go. Incl 2008 Load Rite 5 Star dual axle roller trailer, great shape, w/new cable. Boat in Portsmouth, RI. \$16,950. Contact Chuck at 401-924-1961 or email chuckdore@yahoo.com



FISHING TACKLE

Offshore Rods. 3 Penn Senator 9/0/ reels -2 roller guide rods, 1 standup- \$200 each. 2 Penn Senator 10/0 reels- standup/bent but rods-\$250 each. Penn Senator 6/0 reel with Penn IGFA 6/0 rod-\$150. Accurate/Penn 6/0 reel-Penn senator IGFA 6/0 rod-\$150. Frank Cye custom bent but 130 roller guide rod- \$200. Hawian Bent but rod-\$50. All have new line, pro serviced, exc cond, located in Seekonk. Call Terry at 508-557-1016

OUTBOARDS FOR SALE

Nissan 6 HP 4 stroke, 2007 NSF6BS, AND **Mercury 5 HP 4 stroke**, 2005 1F05211FK. Low hours, used on sail boat. \$500 each. Call Ron at 401-738-0783

HELP WANTED

USCG licensed captain wanted. Must have towing endorsement. Contact Sea Tow RI at 294-2360.

MOVING SOON?
Give us your **NEW ADDRESS**
Call 401-826-2121 or Editor@risaa.org



Swimming Motions of Fish May Help Underwater Robot Design

by Ramin Skibba, *New Scientist*

Propeller-free robots may soon be swimming with style. A new model of how fish and other aquatic species are able to propel themselves forward without expending much energy may help create energy-efficient underwater robots that swim just like the real thing.

By closely studying and monitoring how fish, dolphins and other sea creatures swim, Mehdi Saadat at Harvard University and his colleagues found that many of them have remarkably similar styles that can be described with a simple model, depending on how fast and far the tail whips back and forth and the length of the animal.

Scientists previously homed in on just one parameter that relates the beat of an oscillating fish's tail and how far it oscillates

to the animal's forward motion. But it turned out to be slightly more complicated.

Saadat and his colleagues identified a second important factor: how far the tail goes to and fro relative to the fish's length. They found that almost all fish – and many other sea creatures

– swim in a narrow optimum range of this parameter to generate thrust, with the length of each tailbeat between one and three-tenths the length of the animal.

