RISING TIDE

What is a Floating Island??

Yellowfin Tuna
Strong, Fast & Tasty!

Meet the Goblin Shark...
Looks as Scary as it Sounds!

Plus Cool Stuff & Activities...

[Image of a boy holding a fish]
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**FAST FACTS: If It’s Fun, It’s Tuna!**

**Their bodies are designed for extreme speed with the lines and shape similar to those of marlin. They are able to streamliner their bodies when swimming by folding their flaps into special indentations. This advanced design enables the yellowfin to cruise at ten miles per hour, with bursts of speed that have been clocked at over forty mph.**

**After one year of life, yellowfin are 5-10 pounds. Age-2 yellowfin are about 35 lbs and age-3 about 75 pounds. A four-year-old yellowfin averages about 130 lbs. The maximum size is over 6 feet in length and over 400 pounds in weight. The all tackle world record yellowfin is 400 lbs, caught in Baja Sur, Mexico on November 30, 2010.**

**A yellowfin’s lifespan is somewhat short. Typically a maximum of 6 to 7 years. Their age can be determined by counting the rings that develop in the otoliths (inner ear bones), similar to the way one counts growth rings on a tree.**

**Yellowfin will prey on whatever food is available at the time, mainly on a huge variety of fish, squid, shrimp, and crabs. They are very good light hunters, but can also actively seek their prey. Although they do have teeth, they usually gulp and shake their prey whole.**

**Yellowfin is a tropical species found in the surface waters of all warm oceans. They favor water temperatures between 82°F and 87°F. They are generally found in the upper 200 feet of the water column.**

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**JUNIOR WORLD RECORD**

**Yellowfin Tuna**

Junior angler Kevin Brandon of Toms River, New Jersey, landed this magnificent yellowfin tuna while fishing out of Pascua Yachting, Mexico on August 7, 2010. The 13-year-old Brandon was free lining a live goggle eye when this 241-6-oz yellowfin crashed on his boat. Brandon battled the fish for about 1 hour and 45 minutes, before leaving this new male Junior record.

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**RAW IS RIGHT!**

Yellowfin tuna can fight for hours nonstop and many anglers consider them to be pound for pound one of the hardest fighting fish alive. Catching such a strong fish is lots of fun, but what is the best part about catching a big yellowfin tuna? Eating it afterward! Yellowfin is flavorful when cooked, but is even better eaten raw. If you’ve tried it, you know how addictive it can be. If you haven’t tried it, you must...you won’t regret it!
A Great Read... Mark Kurlansky’s World Without Fish

Written by a master storyteller, World Without Fish connects all the dots—biology, economics, evolution, politics, climate, history, culture, food, and nutrition—in a way that kids can really relate. It describes how the fish we most commonly eat, including tuna, salmon, cod, and swordfish, could disappear within 50 years, and the domino effect it would have—oceans teeming with jellyfish and turning pinkish orange from algae blooms; seabirds disappearing, then reptiles, then mammals. It describes the back-and-forth dynamic of fishermen and scientists. It covers the effects of industrialized fishing, and how bottom-dragging nets are turning the ocean floor into a desert.

The answer? Support sustainable fishing. World Without Fish tells kids exactly what they can do. Find out where those fish sticks come from. Tell your parents what’s good to buy, and what’s not. Ask the waiter if the fish on the menu is line-caught. And follow simple rules: Use less plastic, and never eat endangered fish like bluefin tuna.

A Great Toy... Ranger Fishin’ Buddy

A remote control boat that also catches fish! Crazy, but true! With the Aviva Sports Ranger Fishin’ Buddy, you can be the top angler this season! This remote control boat actually catches fish—no joke! A replica of the popular model 1850 Angler, it has two speeds, three frequencies, and high-performance twin motors. It’s also powerful enough to pull your catch back to the dock. This fun gadget is sure to entertain for hours—and good luck keeping it away from mom and dad!

A Great Activity... Easy “Sushi”

**First:** Unwrap Twinkies and cut into pieces small enough to be wrapped in the Fruit by the Foot.

**Second:** Wrap each Twinkie piece with a section of the Fruit by the Foot.

**Finally:** Push whatever candy you like into the filling.

**What is a Floating Island?**

A floating island is a man-made ecosystem designed to provide a unique living habitat.

**How does it work?**

Peat moss is placed on the surface of the floating island and natural vegetation in the plant bed is then grown through the island and forms a root system to the water bottom. The plants trap sediments and eventually grow toward and onto the emerging mana, strengthening it into a sustainable feeding environment. Additionally, as water passes through the network of hanging roots underneath the floating matrix, the plant roots remove nutrients and pollutants in the water.

**What is made of?**

Matrix: Natural peat moss, recycled plastic drinking bottles, Foam, Dock Block, Oiled Marine Felt

Pipe: A frame of PVC pipe is inserted between two layers of matrix and the cable in the cobble that is 10 connected plates to another.

**What does it do?**

They restore wetlands and reduce soil erosion by reducing the force of wave impacts. They mimic nature thus increasing habitat and improving water quality.

Meet the Goblin Shark

Perhaps one of the world’s strangest looking sharks, the goblin shark’s snout, or rostrum, sticks out from the top of its head in a hood-like fashion. It is known to grow to lengths of 12 feet and weigh as much as 350 pounds.

It has a pink cast to its skin, which is unique among sharks, due to blood vessels being close to the surface of the skin. The peculiar looking shark also has a long, flat-like triangular tail.

When its jaw is at rest, the goblin shark resembles a pinkgray nurse shark. But when feeding, the goblin shark’s jaw protrudes several inches away its head, looking as if an attacker’s snout is protruding from the jaws of the shark.

It was first discovered off the coast of Japan in the late 19th century. Very few specimens have been seen, but they have been sighted in all parts of the world. They are known to exist at depths near 1,000 feet below the ocean’s surface and dive on deep-sea rocks, crags, and fishes.

The goblin shark derives its name from the Japanese common name for the large shark, tengara, which refers to tengu, the goblin-like beings of Japanese folklore that had large, bulging noses.
**WORD SEARCH**

Find the words listed below...

- angelfish
- anglerfish
- aquatic
- bay
- carangiform
- catfish
- clownfish
- cod
- cold-blooded
- eel
- eels
- fins
- freshwater
- gill
- goatfish
- great white shark
- halibut
- hammerhead shark
- herring
- lake
- lateral line
- mackerel
- manta ray
- minnow
- mudskipper
- ocean pionah
- puffer fish
- red
- river
- salmon
- seahorse
- scales
- school
- shark
- trout
- tuna
- vorterater
- whale shark

**HOW TO DRAW A SHARK**

To draw this shark you will need: colored pencils

*Optional: water, small paintbrush and watercolor pencils*

1. Draw the outline and fins using triangular shapes.
2. Soffen your lines, adding shapes to the fins.
3. Shade the body and add the gills. Draw the detail inside the mouth.
4. Sharks have blue-gray backs and fins and pale underbelly. Shade the pale areas by adding areas of pale blue to shadowy places.

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**KIDS FISHIN’**

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**Do you have a great catch that could make our KIDS FISHIN’ Page?**

*We bet you do! Send us your favorite photos and stories and you could be featured in the next issue of Rising Tide.*

It’s easier than you think to become Fishin’ Famous!

*Send photos and/or stories to: hpeter@joincsa.org*

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**Photo Credits:**

- Sandy N. and John’s hogfish. 10, with chick by Kristen Hughes in Gushungo, Texas.
- Karen Garcia, 5, shows off his special kind caught at the pier by Debbie Garcia in Gushungo, Texas.
- Christopher C. and Brandon T., both 13, show off their 10 lb. fish caught at the pier by their parents in Gushungo, Texas.
- Don W. Garcia, 10, shows off his 10 lb. shark caught at the pier by his parents in Gushungo, Texas.
- Todd M. Garcia, 10, shows off his 10 lb. fish caught at the pier by his parents in Gushungo, Texas.

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**Black Press 13” Inshore” shown catching a fish at the pier by Todd M. Garcia, Texas.**
At Valero, we’re proud to be America’s largest refiner, producing everything from gasoline to jet fuel. But we’re also one of the nation’s most environmentally responsible refiners, too. We think the Coastal area is one of the most important regions in the United States, and we want to help keep it that way. That’s why we are proud to sponsor the Rising Tide newsletter. Inside, you’ll find lots of interesting information, and you’ll discover the fascinating world underwater.

We hope that with what you learn, you will grow up just as determined as we are to help protect one of our most valuable natural resources: the Coastal area of our United States.