

# Six reasons habitat matters to fish, and people too

May 19 2016

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Our oceans and coasts contain a stunning variety of marine habitats—everything from coral reefs to salt marshes, oyster beds to kelp forests. These habitats are essential for maintaining the robust fish populations that support sustainable U.S. fisheries.

Here's 6 reasons why [habitat](#) is so important for [fish](#), and for people:

## **(1) Habitat provides safe neighborhoods for young fish.**

[Estuaries](#)—calm coastal areas where rivers meet the sea—provide a secure place with lots of underwater hiding spots for young fish to use as they grow in size and strength. For example, when juvenile summer flounder are large enough to swim, they move to protective shallow-water estuaries along the Mid-Atlantic coast.

## **(2) Habitat is used as a hiding spot by fish.**

When colorful parrotfish in the Caribbean and the Pacific Islands need to rest, they find crevices in their [coral reef habitat](#), and some fashion a mucus-cocoon "sleeping bag" around their bodies. Their coral reef hiding spots protect them against predators during their nap.

## **(3) Habitat location is crucial when it comes to mating.**

When [Chinook salmon](#) reach adulthood, they make the long journey from ocean waters to the freshwater stream of their birth to find a mate and breed. The male locates an ideal spot for nesting, with good gravel and optimal water flow. The female digs a hole in the gravel with her tail and deposits her eggs, which the male fertilizes—giving the next generation the best chance for success.



Aerial view of a Chesapeake Bay estuary. Credit: NOAA

#### **(4) Habitat lets fish follow the food.**

Whale sharks, the largest fish in the world, travel long distances to the warm waters of the Gulf of Mexico to find a floating buffet. [Plankton](#), tiny fish, and fish eggs use the water column as habitat, allowing the currents to take them from one place to another. This collection of moving marine life may become part of the whale shark's diet as it swims by.

#### **(5) Habitat helps fish protect their growing families.**

Male lingcod living on the Pacific coast spend their adult lives on a single [rocky reef](#). After a female visits from the deep ocean to spawn, the male will guard the eggs on the reef. Protecting the nest is a difficult

task, as lingcod eggs are a favorite snack for crabs, snails, dogfish and starfish. But the rocky reef provides a safe location for the males to mount a strong defense against hungry predators.

## **(6) Habitat matters to people's well-being.**

Coastal and ocean habitats protect fish AND humans. Habitats such as wetlands and mangroves act as buffers against storms, helping to reduce flooding and protect [coastal communities](#). Healthy habitat also means more fish to support sustainable commercial and recreational fishing, industries that supported 1.73 million jobs and \$195 billion in sales in 2013. This vital resource helps keep our fisheries sustainable, and our coastal communities resilient.



Parrotfish in the Cayman Islands. Credit: NOAA/J. Bedford



Spring chinook salmon. Credit: USFWS/M. Humling



A whaleshark swimming in open water. Credit: Wikimedia/Z. Wolf

Provided by NOAA Headquarters

Citation: Six reasons habitat matters to fish, and people too (2016, May 19) retrieved 25 April 2024 from <https://phys.org/news/2016-05-habitat-fish-people.html>

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