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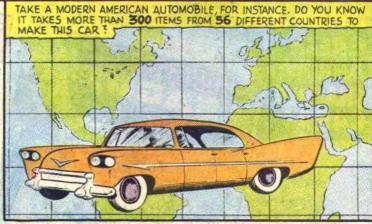




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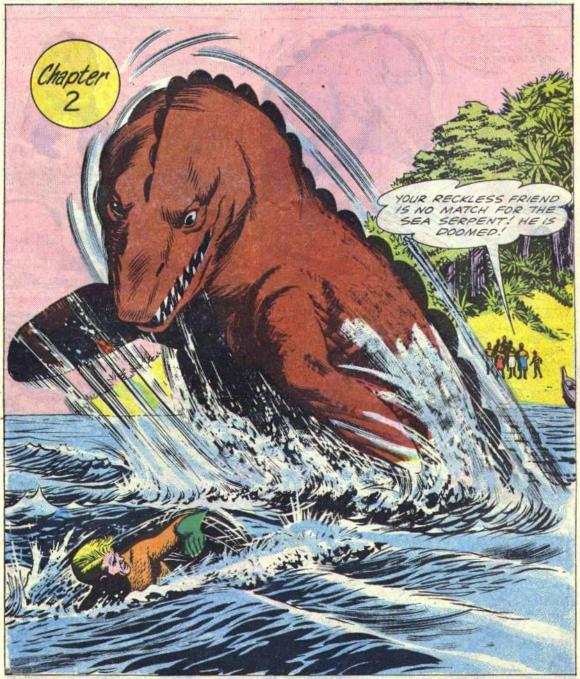
YES, IT'S TRUE, NO ONE COUNTRY CAN BE SUFFICIENT TO ITSELF, ANY MORE THAN ONE PERSON CAN BE SUFFICIENT TO HIMSELF, IT TAKES MANY COUNTRIES, WORKING TOGETHER, TO PROVIDE PROGRESS FOR ALL !



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THE AQUATIC ACES DISPLAY AMAZING SKILL AND DARING IN ORDER TO STEP FOOT ON THE FORBIDDEN LAND, ONLY TO FACE CERTAIN DEATH WHEN THEY BECOME...



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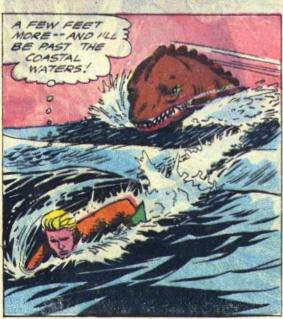


































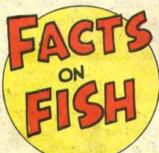






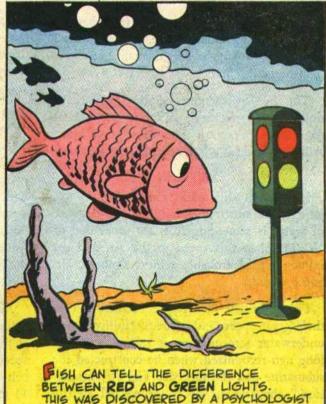








ACCORDING TO THE GMITHGONIAN INSTITUTION, THERE IG A FIGH THAT WEARS A NIGHTGOWN. IT RIPS IT OFF EVERY MORNING AFTER A NIGHT'S REST. IT PREPARES THE GOWN ITSELF AND SLIPS INTO IT. THIS GAUZY CREATION IS MADE WITH ITS OWN SECRETION AT NIGHT-TIME.



AT THE UNIVERSITY OF WASHINGTON.



BATS THAT HAVE THE UNIQUE ABILITY TO HUNT FISH ARE BEING STUDIED BY U.S. NAVY EXPERTS FROM PANAMA TO BRAZIL. THE BATS SEEM TO HAVE A BUILT-IN SONAR SYSTEM THAT ENABLES THEM TO FIND FISH BELOW THE WATER. THE NAVY THINKS THIS MAY LEAD TO NEW UNDERWATER DETECTION SYSTEMS.



THE FLUTA, A FIGH IN SOUTHEAST ASIA, IS THE LATEST CANDIDATE FOR THE MISSING LINK IN EVOLUTION BETWEEN FIGH AND LAND-LIVING ANIMALS. THESE FISHES COME OUT OF THE WATER TO SLITHER ALONG IN THE MUD. THE SCIENTIST WHO DISCOVERED THIS WAS JUST HONORED BY THE AMERICAN SOCIETY OF ICTHYOLOGISTS.

THE FASTEST FISH ALIVE

NOT long ago, a French scientist coaxed a variety of fish to a water track he constructed in the River Vienne. There, the fish took off downstream, pitted against a champion human swimmer.

The human swimmer clocked in at the finish line after achieving a top speed of about four miles per hour. The winner? A lowly salmon who beat all competition with a swift 25 miles per hour dash.

If 25 mph still seems pretty slow in this jet age, you must remember that the resistance of water is something like 700 times that of air. Translate this speed to the air, and the salmon would probably achieve fantastic airborne speeds.

Fish can thank their physical structure for their great speed and maneuverability. Their underwater streamlining is perfect, as man long ago recognized when he constructed the submarine and the torpedo. The "jet propulsion," the streams of water ejected swiftly backwards through the gills, the tapering, molded body and bullet-shaped head, combine to make the fish ideally suited for underwater action.

The fish moves chiefly by the rippling undulation of its body, aided by the streams of water from the gills. But other organs are built-in to serve as steering devices, balancers, brakes and aids to sudden movement. Most remarkable of all is the swim-pouch inside

the fish, a kind of gas-filled sac lying just

above the gullet.

This acts as a sort of lifebuoy, adjusting the gas contents according to the degree of water pressure encountered at varying depths. Thus a fish can dive deeply or speed near the surface without experiencing any discomfort at the sudden changes in external pressure.

Clues of the relative speeds of fish can be found in the shape and tail formation. The fastest fish have long, cigar-shaped bodies. Fish with short, compressed bodies are slower-moving. Fish with deeply forked tails are fastest over long distances, while those with square or rounded tails are usually slowpokes.

There are a number of fascinating ways used by scientists to measure the speed of the denizens of the deep. One is a "fish-o-meter," which is attached to a rod to register the speed at which the line is run out. Another is a device in which tank fish are harnessed with a silk cord which unwinds over a pulley, setting off a sensitive relay once every revolution. A third is by taking a film of swimming fish and working out the speed by juxtaposing the varying positions on each frame of the film.

Among the smaller fish, the trout is right behind the salmon with a maximum speed of about 23 miles per hour. Devilfish hit a top speed of 14 miles per hour and bass is right behind with 12 miles. Barbels scoot along at 11 miles per hour, perch at 10 mph, and eels dart along at about seven mph.

The fastest fish alive is without a doubt the sailfish, a variety of the swordfish. This fish has been known to hit a top speed of nearly 70 miles an hour, and anything over 60 mph is usual for these speedy sea creatures. But the tunny is no slouth either. Clocked by a "fish-o-meter," the tunny can spurt off at a fast 40 mph.

For sheer impact of speed, the swordfish hooks first prize. If you don't think so, consider that this fish has been known to drive its rapier through a boat's hull constructed of hardwood sheathed with copper and faced with oak, to a depth of 20 inches. To accomplish this, the swordfish had to be going at least 60 miles an hour.

The slowest fish alive? It is the octopus, which sloshes around at about 4 miles per hour. But don't sneer. Four miles an hour is the top speed achieved by human swimmers.















































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