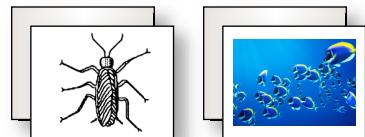


kids' kreation

© 2013 by HIS CREATION

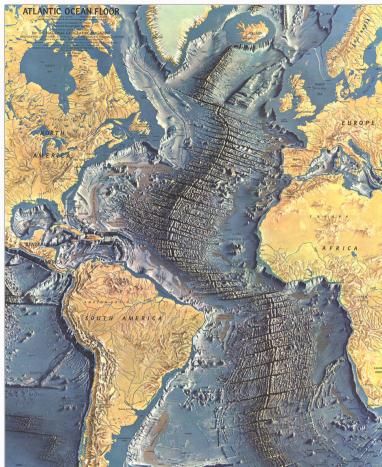
75



OCEAN DEPTHS

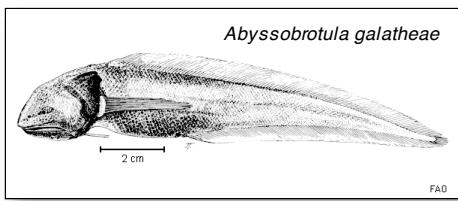
Proclaiming Christ's greatness

Jesus said to His disciples,
“...with God all things are
possible” (Matthew 19:26).
We certainly see this truth
illustrated in the ocean deep!



Using SONAR,
oceanographers
have been able to
produce a map
of the Atlantic
Ocean floor. They
have made similar
maps of the other
oceans.

Below is a drawing of the deepest-living fish in the ocean. It has been found at a depth of 27,453 feet (8,370 m) in the Puerto Rico Trench. The pressure here is 12,000 pounds per square inch!



Nielsen, J.G., et al
FAO



This diagram gives us a rough idea of ocean depth, and the fact that most of the ocean is set in perpetual darkness.



Wikimedia

Jesus gave the sperm whale the ability to dive 6,600 feet (2 km) deep in the ocean. At this depth, they feed on very large squid and octopus.

The sperm whale is one of the few sea creatures that can change depth quickly without harm.



University of Aberdeen, Oceanlab

Snailfish live 4.3 miles (7 km) below the surface of the sea. The pressure here is equal to 1,600 elephants standing on the roof of a small car.

Down

1. The _____ at the bottom of the ocean is one thousand times greater than at the surface.
2. Scientists who study the ocean are known as _____.
4. The average _____ of the entire ocean is 39° F or 4° C.
6. God made the ocean as a display of His _____.
8. Waves move _____, not water, across the ocean.
9. The concentration of _____ in seawater is known as salinity.

Across

3. The ocean covers greater than _____ percent of Earth's surface.
5. As tsunamis approach land they grow in _____.
7. _____ is the name given to a deadly wave God creates from an earthquake.
9. Oceanographers use _____ to "see" the bottom of the ocean.
10. Wind waves can combine with one another and form superwaves known as _____ waves.
11. The ocean floor is composed mainly of _____.
12. Water expands when it _____.

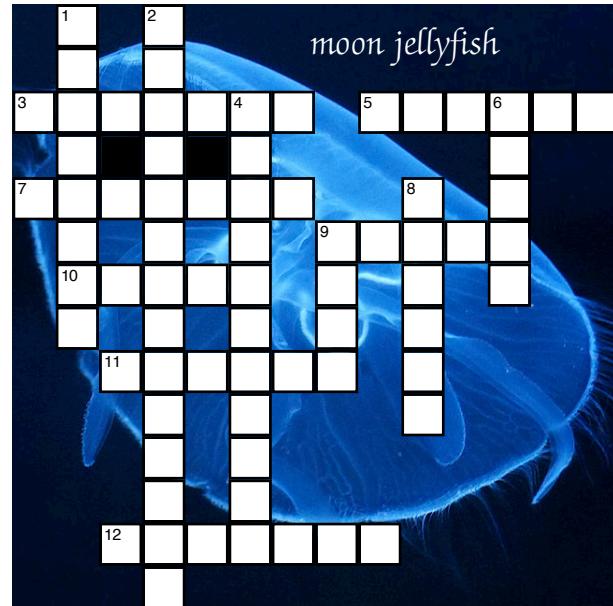
FAMILY ACTIVITIES:

Deep Ocean Currents

In this activity we will demonstrate how our Lord Jesus forms **deep ocean currents**. You will need a clear baking pan, an ice cube tray, water, a thin stick, and blue food coloring. Add 15 drops of blue food coloring to two cups (500 ml) of tap water and mix. Fill the ice cube tray with blue water and place in freezer until water is frozen solid. Next fill the clear baking pan two-thirds full with clear, warm tap water and place in a quiet spot of the kitchen. Take several blue ice cubes and position them at one end of the pan using a thin stick to hold them in place. Now watch what happens over the next 10 minutes. Record your observations. Like a deep ocean current, the cold blue water moves away from the ice and along the bottom of the pan because it is heavier than the rest of the water.



advancing edge of cold water on bottom of pan
stick
ice cubes



Hans Hillewaert

CROSSWORD

The words used in the CROSSWORD are taken from the article found in **CREATOR** Vol 18 Num 3.

Answers to
CROSSWORD found in
kids' kreation #74

Down: 1. DOLDRUMS
2. CLOCKWISE

3. EQUATOR 5. SEEDS
9. WIND 10. LOW

Across: 2. CORIOLIS
4. TORNADOES
6. HURRICANE 7. HIGH
8. SLOW 11. BIRDS

Salt, Pressure, and Creation Care

You can get an idea of the **ocean's salinity** by mixing 1 1/2 tsp of table salt in 8 oz (1 cup) of water. With your parents' permission, TASTE a tiny amount of the mixture (DON'T drink it!). How does it taste?

Water pressure increases with depth. With your parents' help, use a nail to poke three holes into the side of a 2-liter plastic bottle at one inch, six inches, and 10 inches from the bottom of the bottle. Over the kitchen sink, fill the bottle with water and watch. What happens? Why?

As a family, try your hand at establishing **your own home aquarium**. You can read about how to do this by visiting your local public library or check out links like this one:

<http://www.youtube.com/watch?v=FkO5E4wLbAg>

Why set up your own aquarium? With time, you'll discover that caring for fish takes dedication, patience, and faithful care. Now consider this: God cares for all the fish in the ocean, which holds trillions of marine creatures. So, how great is our Creator?!