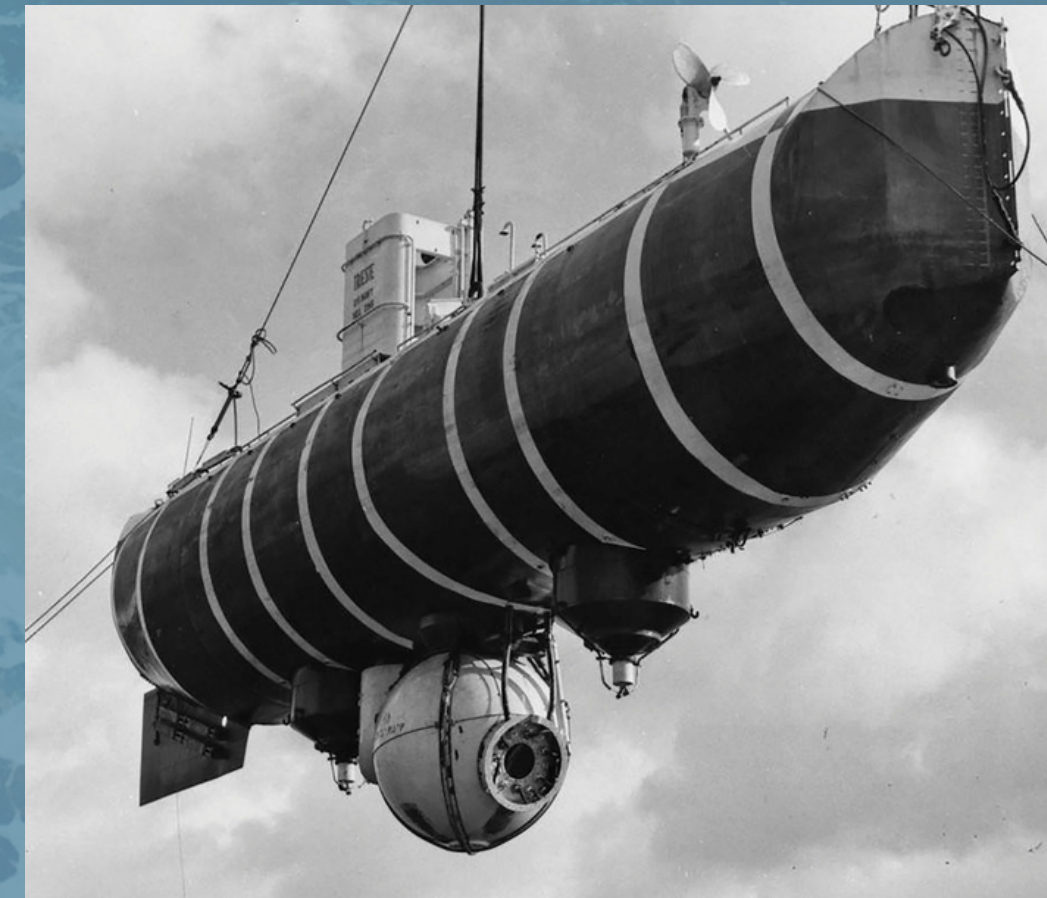


**STORY OF SEARCHING
OCEANS AND WHAT
LIMITS US FROM
EXPLORING THEM?**

By Jessica Warpas 1A

Don Walsh and Jacques Piccard

These men were two first people to visit the Mariana Trench January 26, 1960 they descended to the deepest point on Earth using batyschape TRIESTE. After landing on the botom they saw almost nothing. Visibility at such depths is terrible but when the water slit rose they saw fish and strange crabs. This proved that there was life in the Mariana Trench.



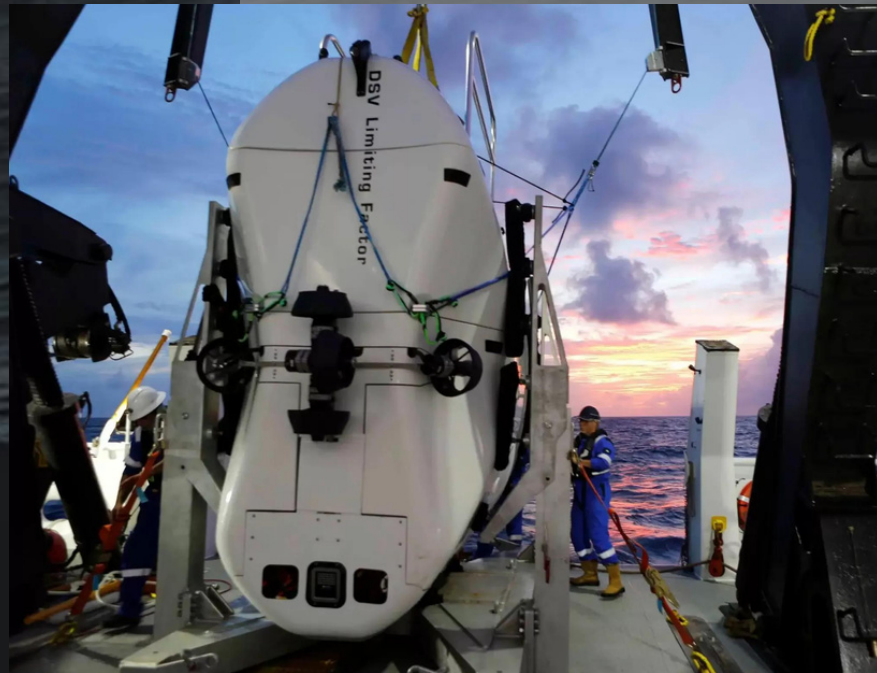
JAMES CAMERON

This man had always dreamed of reaching to the bottom of the Mariana Trench - the deepest area on Earth. One day he started designing his own batyscaphe - which he named DEEPSA CHALLENGER. In march 2012 he made the journey to the bottom. James descended to a depth of almost 11,000 meters. In spit of Cameron spent there not much time, he collected samples which later could be used for research. After analysis it was discovered a lot of bacteria (about 20,000) and few new species.



Victor Vescovo

This man is an investor and underwater explorer. He came up with the mission “Five Deeps Expedition”. During this he descended to a depth about 10 928 meters underwater, which was a world record. Victor reached to this depth of Mariana Trench on April 28, 2019. He also reached other trenches in oceans. After his expedition on Mariana Trench, several new species discovered.



What do we know about the oceans?

Oceans are large bodies of water, which occupy huge area of our planet. This is as much as 70 % of Earth's surface.

All of these oceans create one large, which is called the World Ocean. There are many species of fish and water plants, but most of them haven't been discovered yet.

There are 5 oceans:

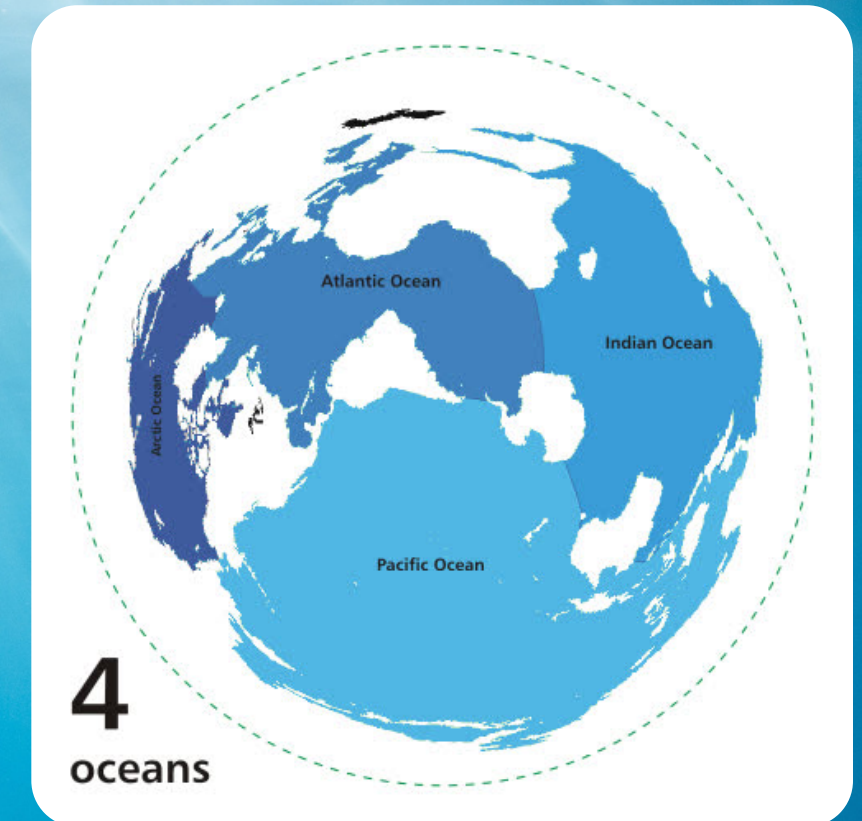
the Pacific Ocean – the biggest one, which occupy 30 %

the Atlantic Ocean

the Indian Ocean

the Arctic Ocean

the Southern Ocean

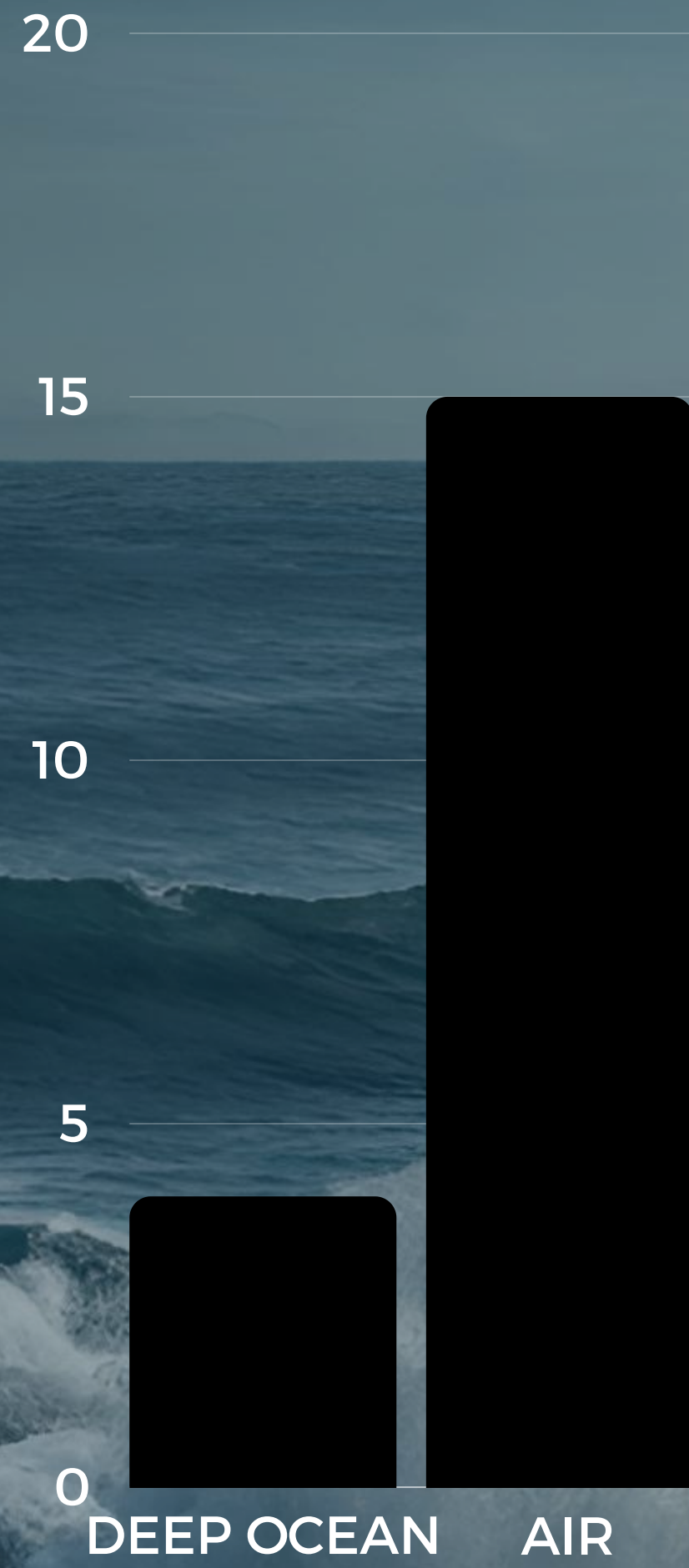


VERY HIGH PRESSURE

The deeper in the ocean, the higher the pressure. This makes work hard, because they must be special prepared for this. This is difficult to overcome because not every submarine can withstand such enormous pressure. Pressure at the bottom of the oceans is 1086 bar. Because of them, most aquatic animals cannot approach the bottom.

AVERAGE PRESSURE





COLD TEMPERATURES

In the deep water the temperature is low. It definitely makes work in the ocean difficult. Average air temperature is about 15°C but of the bottom about 4°C. Exploring oceans in such cold water is challenging.

NO SUNLIGHT AND POOR VISIBILITY

Another obstacle that prevents us from searching the ocean is darkness and poor visibility. Sunlight reaches only a small amount only up to 1000 m underwater, and deeper there is complete darkness. In such conditions, it is difficult to explore further parts of the ocean.

RECAPITULATION

Nowadays searching ocean is more difficult than space exploration. We know only 5-10% about the oceans which is a small result. Only a few people managed to descend to the Mariana Trench which is the deepest area on Earth. I think in the future we can explore whole ocean. Science and technology will develop, so maybe we will invent any submarine or batyscape which will do research instead of us.

THANK YOU FOR YOUR ATTENTION!

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