

*A. Nirsheva, Bachelor student*  
*I. Khaliman, As. Prof., research advisor*  
*S. Shevchenko, language advisor*  
*Tavria State Agrotechnological University*

## **WORLD OCEAN IN DANGER**

The ocean is the beginning of life of all living organisms on the Earth. It was from there came the first plants, the first microorganisms that subsequently evolved and we can see them now.

Millions of years spent in the nature of the fact to create all conditions for life. Initially, our planet was dotted with volcanoes. It was nothing of the living. As a result of the evaporation the first clouds appeared, and then the first rains. When, they began to fill in our Earth with water for many years, which will soon become the first seas and oceans. During many chemical processes, water had warmed. The primitive algae appeared. They, in turn, performed a function of photosynthesis whereby our atmosphere began to fill with oxygen. Then, the first simple organisms that exist today had appeared. Remember the rock off the coast of the seas and oceans. This is the result of long-term skeletons protozoa deposits.

From the moment when people started to use the ocean for the extraction of resources and partly of water, they formed the opinion, that they are infinite. Unfortunately, this illusion exists today.

Fishing occurs regularly and in large quantities. This breaks the natural balance significantly. Some species of marine life are on extinction. Technological progress allowed millions of tons of water to pass through the network, capturing any fish, dolphins, whales, sharks. The story is full of cases when the ships were drowning because of too heavy a load of caught fish.

Invasive species in the ecosystem are animals or plants that did not originally live in it, but came into it thanks to people or because of a hurricane, flooding and so on. Invasive marine species cause significant damage to the ecosystem around the world. Such species as lionfish, zooplankton, pacific jellyfish and even modest starfish violate food chains and lead to the extinction of marine plants and animals. When the food chains are destroyed, the entire ecosystem can collapse. These processes occur in the oceans around the world and so far have no signs of slowing down.

Another negative effect on the ocean is the sunblock. Of course, in comparison with previous threats, a sunblock is a trifle. Meanwhile, some tanning agents are dangerous for coral reefs. A small amount of sunscreen does not seem to be a real threat, but if it is multiplied by tens of millions of swimmers who bathe in the ocean every day, there will already be a more significant amount.

What about oil? Anyone who would like to seize the oil wells as it is profitable. But did you know that oil is the result of the decomposition of dead organisms that lived millions of years ago.

Ocean pollution is no less important problem. Due to the naive illusion humans are polluting the waters of the ocean with household waste and hazardous chemical substances. Currently, the ocean fauna is the most affected. Plastic is one of the greatest and one of the worst inventions of mankind. Plastic particles resemble zooplankton, and

jellyfish, turtles and fish can take them for food. A large number of durable plastic (caps and rings from the bottles) are in the stomachs of marine birds and animals.

In the world there are as many as five garbage islands that float in the ocean. Due to currents, every day they add new garbage from different continents. The largest of them is in the North Pacific current system. The concentration of plastic in it is incredibly high. Approximate dimensions of its area is from 700 000 km and more.

One of the things that complicate the protection of the ocean is due to the fact that it is difficult to understand what processes occur in its depths. We do not see the damage from catching fish by trawlers, who clean up everything on their way with their networks. We do not see the negative impact of the huge amount of waste and pollution that are dumped in the sea every day. But we are seeing the disappearance of coral reefs, seaweed and mangrove forests, which are being destroyed thanks to forward progress.

And this is just some of the problems what is happening to our oceans. Unfortunately, the authorities do not tend to focus on environmental issues because it is not economically profitable. It remains to hope that people do not reach this situation until the last moment and take decisions in a short time.

### **REFERENCES**

1. <http://nature-time.ru/2013/12/ekologicheskie-problemyi-okeana>
2. Factfiles. Recycling. Sue Stewart. – Oxford University Press, 2008. – 72 p.
3. Factfiles. Animals in danger. Andy Hopkins and Joe Potter. – Oxford University Press, 2008. – 56 p.