

# The human influence on the Oceans

# Human impact on the nature of the ocean

- Human impact on the nature of the ocean at the present time has two aspects: use of resources and pollution.



# The Value Of The World Ocean



- The world ocean due to it occurring in biochemical processes are often referred to as the cradle of life on Earth. Seawater discovered the most chemical elements known on the planet. Oceans and seas inhabits a rich, diverse flora and fauna, and underwater depths of storing large reserves of various minerals

# Excessive fishing



- The man learned to catch fish and other marine life. Technological progress has allowed to pass through the network millions of tons of water, trapping any fish, dolphins, whales, sharks. When people are so devastated marine ecosystems, they deprive themselves of the opportunity to subsist at the expense of the sea in the future.

# The introduction of new species in marine ecosystems



- Invasive species in the ecosystem are animals or plants that initially did not inhabit, and they got here through the people or because of the hurricane, floods and so on. Invasive marine species cause significant damage to the ecosystem worldwide.

# The pollution of the world ocean



- Pollution has in recent decades taken a very considerable size.
- The land and the ocean boundary, river, which flows into the sea and contain various pollutants. Not disintegrating upon contact with soil chemicals, such as oil, fertilizers get into rivers and then into the ocean.

# Oil pollution



- The most dangerous and common today, is the oil pollution of the ocean. To ten million tons of oil are discharged annually. About two million goes to the ocean by river runoff. The largest oil spill occurred in 1967 off the coast of great Britain. As a result of the sinking of the tanker Torrey Canyon then the sea poured over 100 thousand tons of oil

# Oil pollution

- Oil leaked into the sea and during drilling or operation of oil wells in the oceans (up to one hundred thousand tons per year). Once in seawater, it forms the so-called "oil spots" with a thickness of several centimeters in the upper layer water masses. Namely, it is known to host a very large number of living organisms.



# Pollution by chemicals

- Especially dangerous is the contamination of oceans with pesticides. These chemicals have the ability to accumulate in living organisms in the process while nobody can say how they affect the last. Besides pesticides, negatively on the organic world of the ocean is affected by the substance that is used to paint the keels of ships.



# Thermal pollution



- Another type of pollution of waters is the so-called thermal pollution. The reason it is dropping water, the temperature of which is significantly higher than the average in the Ocean. The main sources of heated water are thermal and nuclear power plants. Thermal pollution of the World ocean leads to violation of its thermal and biological regime, impairs fish spawning and destroys the zooplankton.

# Metal pollution



- The most dangerous are heavy metals such as lead, cadmium, copper, Nickel, arsenic, chromium and tin. So, now every year the World ocean gets up to 650 thousand tons of lead. And the content of tin in marine waters of the planet are three times higher than the standard dictates.

# radioactive pollution



- Poorly understood, and therefore extremely unpredictable consequences of ocean pollution by radioactive wastes. Scientists estimate that today in the World's oceans contains 30 times more radioactive substances than were released in the Chernobyl disaster of 1986. Massive quantities of deadly waste fell into the ocean after a huge accident at the nuclear power plant Fukushima-1 in Japan.

# The plastic pollution



- The twenty-first century is the era of plastic. Tons of plastic waste are now in the oceans, and their number only increases. Few people know that there are whole "plastic" Islands enormous size.
- The great Pacific garbage patch—an accumulation of debris of anthropogenic origin in the North Pacific ocean. Size exceeds the size of the US.

# The great Pacific garbage patch



- Thus it is obvious that the pollution of the World ocean is the major environmental problem of our century. And it should be fought.

