MOLLUSCA ON ARTIFICAL HARD SUBSTRATES ALONG THE CRIMEAN COAST (THE BLACK SEA)

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Coastal zone is most dynamically and influence of antropogenic impact area. Besides natural surfaces in coastal zone, so hard artificial substratesare presented in it, in particular,along the Black sea coast of Crimea very widely. To immobile hard artificial substrates relative the surfaces of anthropogenic origin behave: breakwaters (malls), cutwaters, tetrapods. They are characterized a smooth, mainly vertical surface, except tetrapods, having sloping and horizontal surfaces also. Besides different hydrotechnical functions, they are surface for many species of benthic animals and plants. However, fouling of hard artificial substrates studied not enough yet. Data on specific composition, abundance and biomass of molluscs on artificial reefs along the crimean coast was very little to XXI century. Only episodic data, mainly from the region of Sevastopol was presented before. But since 2002 to 2017 years we are accumulated the large array of data on species composition, abundance and biomass of molluscs on artificial hard substrates along the Crimean peninsula from Sevastopol coast in south-west to Karadag nature reserve in south-east. In most areas we took samples in all seasons. Many species of mollusks were found in this biotope. So, the high abundance and biomass of molluscs on hard artifical substrates were found, especially of bivalvies. Some species of Mollusca are widely spreading in all biotops, but some species are typically for hard surfaces only. The trophic structure of mollusks in this biotope has high diversity too. So, animals, including Mollusca as very important and mass benthic taxon, in fouling of artificial hard surfaces are very interesting and perspective for further researches.

The aim of this paper is generalization of our modern data on a specific and trophic structure, abundance and biomass of molluscs in fouling of hard artificial reefs along the Black sea Crimeam coast.

***Keywords*:** artificial hard substrates, foulings, Mollusca, Crimean coast, the Black sea.

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