Investigation Of Invasive Species In The Ballast Waters Of Ships

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During the last years an unusual form of pollution by the merchant ships, seriously harm the Black sea ecosystem. Thus the exotic species accidentally transported from the other parts of the Ocean with the ballast waters pumped out close to the Black sea coast were adapted successfully and developed violently, because they have not natural enemies to restrict their population. Investigation of the ballast waters by taking samples from ship's ballast tanks carried out in 2008-2009 in the frame of the national project. The aim of the project was to prove existence of plankton and benthos species and their origin. The comparing the results from the project and previous multiannual data for Port of Varna and Varna-West shows tendency of decreasing of the invasive species. The determined species were mainly by Mediterranean and domestic origin. On basis investigation and analysis of the main World ports was found that the basic donors of introduction species are Atlantic and Pacific oceans. The analyses of ship's samples shows that the exchange of the ballast were carried out in the open sea area as per Rules.