# THE STRUCTURE OF MACROZOOBENTHOS ASSEMBLAGES IN THE AREA OF SEWAGE-TREATMENT PLANT IN JURATA – JASTARNIA (THE PUCK BAY COASTAL ZONE)

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**Abstract**: Single study on horizontal distribution of macrozoobenthos in the sandy bottom of Jastarnia and Jurata coastal zone was conducted in summer 2004. 15 sampling sites in Jurata were divided into 4 radii every 100 m and 4 sampling sites were located near the harbor in Jastarnia. 18 species and 3 groups represented benthic invertebrates in the studied area. They reached the density of $\bar{x}$ = 1840 indiv.·m$^{-2}$ and wet mass of $\bar{x}$ = 121.8 $g_{ww}$·m$^{-2}$ near Jurata and near Jastarnia $\bar{x}$ = 638 indiv.·m$^{-2}$ and $\bar{x}$ = 376.6 $g_{ww}$·m$^{-2}$, respectively. The most abundant species were *Hediste diversicolor*, *Cerastoderma glaucum* and *Hydrobia ulvae.* As for the biodiversity calculated with the Shannon index, it reached the highest values at sampling sites the most distant from the shore in Jurata. Species composition as well as qualitative and quantitative structure of benthic fauna in the studied area indicated unsatisfactory environmental conditions and low value of the area as a feeding ground for fish.