

The biostratigraphy of the Middle Miocene-Pliocene deposits of the Taman's depression (the Black Sea) according to Ostracoda

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There are 27 species of the genera *Paradoxostoma*, *Loxoconcha*, *Pontocythere*, *Cyprideis*, *Leptocythere*, *Caspiocypris*, *Bacunella*, *Pontoleberis*, *Advenocypris*, *Caspiolla*, *Pontoniella*, *Candona*, *Cytheridea*, *Cytherissa*, *Mediocytherideis* in the Karagan-Lower Kimerian deposits. The biostratigraphical and ecological criterion underlie the biostratigraphical division of the deposits according to ostracodes. There is the appearance and the disappearance of the species, the presence of the species-index, the heyday of species, the correlation of the various ecological (marine, brackishwater, freshwater) groups and the ecological particularized species, the analysis of ostracodes population, the stratigraphical and zoogeographical distribution of the species. The Taxon-Zone of *Loxoconcha aff.bairdi* (Karagan). Oppel-Zone *Leptocythere (E.) bosqueti* (Middle Sarmatian). The lower bound is determined by the first appearance of *Leptocythere bosqueti* and *Cyprideis torosa*. The upper bound is determined by the disappearance of the marine species. Oppel-Zone *Leptocythere (E.) praebaquana* (Upper Sarmatian). The lower bound is determined by the first appearance of *Leptocythere praebaquana*, *Leptocythere crebra*, *Leptocythere mironovi*, *Caspiocypris labiata*, *Bacunella dorsoarcuata*. The zone is divided into two subzones. The subzone *Caspiocypris labiata-Bacunella dorsoarcuata* (the base of the layer) is determined by the appearance of *Caspiocypris labiata*, *Bacunella dorsoarcuata*. The subzone *Leptocythere* (the roof of the layer) is determined by the appearance of *Leptocythere praebaquana*, *Leptocythere crebra*, *Leptocythere mironovi*. Oppel-Zone *Leptocythere mironovi* (Lower Meotian) is determined by the heyday of the brackishwater ostracodes. The lower bound is determined by the first appearance of *Leptocythere andrussovi*, *Leptocythere plana*, *Leptocythere multituberculata*, *Loxoconcha eichwaldi*, *Loxoconcha immodulata*, *Caspiolla acronasuta*, *Pontoniella acuminata*, *Pontoleberis laevis*, *Advenocypris centropunctata*, freshwater *Candona expressa*. The upper bound is determined by the appearance of *Leptocythere* and *Candona*. It is divided into two subzones. The subzone *Candona expressa* (the base of the layer) is determined by the first appearance of the freshwater ostracodes and the appearance of the brackishwater species. The subzone *Leptocythere mironovi-Leptocythere crebra* (the roof of the layer) is determined by the domination of *Leptocythere mironovi* and the low species variety of the brackishwater ostracodes. The lower zone of the heyday of *Caspiolla acronasuta-Caspiocypris labiata-Pontoniella acuminata-Bacunella dorsoarcuata* was determined within the bounds of the Oppel-Zone *Leptocythere mironovi* (the base of the layer). Oppel-Zone *Cyprideis torosa-Cytherissa bogatschovi* (Upper Meotian). The lower bound is determined by the first appearance of *Cytherissa bogatschovi*, the upper bound is determined by the disappearance of *Leptocythere polymorpha*, *Loxoconcha babazaniana*, *Cytheridea burdigali*, *Cytherissa bogatschovi*, *Candona neglecta*. The lower heyday of *Cyprideis torosa* (the base of the layer) and the subzone of *Cytherissa bogatschovi-Candona neglecta* (the roof of the layer; the strong depression of the ostracodes) was determined within the bounds of this Oppel-Zone. The upper zone of the heyday of *Cyprideis torosa* (Novorossiysky layer; Lower Pontian). The upper zone of the heyday of *Caspiolla acronasuta-Caspiocypris labiata-Pontoniella acuminata-Bacunella dorsoarcuata* (Bosforsky layer; Upper Pontian; the heyday of the species). Oppel-Zone *Pontoleberis laevis* (Lower Kimerian) is determined by the brackishwater and marine ostracodes and the reduction of the number of the association species. The lower bound is determined by the appearance of *Leptocythere (E.) bosqueti* and *Pontoleberis laevis*, the upper bound is determined by the disappearance of the ostracodes.