

## OSTRACOD AND FORAMINIFER ASSEMBLAGES OF TERTIARY SEDIMENTS AT W. BAKIRKÖY (ISTANBUL)

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ABSTRACT.- The drilling samples taken from the western part of the Bakırköy Basin were investigated, and the microplaeontological data were evaluated. Pliocene, Late Miocene and Late Eocene aged sediments have been observed from top to bottom of drilling, at the results of the laboratory investigation. 14 genera and 25 species from the ostracods and 10 genera and 8 species of benthic foraminifera from the Pliocene sediments: 6 genera and 11 species of ostracods, 9 genera 9 species of benthic foraminifera from the Late Miocene deposits and 11 genera and 11 species of ostracods and 20 genera and 6 species of benthic foraminifera from the Late Eocene sediments were described. The microfauna of Pliocene sediments consists of *Cyprideis seminulum* (Reuss), *C. pannonica* (Mehes), *C. anatolica* Bassiouni, *C. torosa* (Jones), *C. tuberculata* (Mehes), *C. trituberculata* Krstic, *C. pontica* Krstic are rare, and characteristic for Pontic Basin. In addition, *Loxococoncha* sp., *Semicytherura* sp., *Xestoleberis margaritae* Mauller, *X. ventricosa* Mueller, *X. reymenti* Ruggieri, *X. communis* Mueller, *Darwinula stevensoni* (Brady&Robertson), *D. cylindrica* Straub, *Ilyocypris* cf., *bradyi* (Norman), *Candona* (*Candona*) *altoides* Petrovski, *C. (Candona) parallela pannonica* Zalanyi, *C. (Candona) decimal* Freels, *C. (Candona) Candida* (Müller), *C. (Candona) neglecta* Sars, *Heterocypris salina salina* (Brady), *Eucypris dulcifons* Diebel & Pietrzenuik are found in the sequence, and foraminifera consisting of *Siphonaperta aspera* (d'Orbigny), *Quinqueloculina seminula* (Linne), *Eponides concameratus* (Williamson), *Cibicidodites* sp., *Cibicides advenum* (d'Orbigny), *Asterigerina* sp., *Ammonia compacta* Hofker, *A. parkinsoniana* (d'Orbigny), *Challengerella bradyi*, Billman, Hottinger & Oesterle, *Elphidium crispum* (Linne) are of Pliocene age. The following species were identified from the Upper Miocene; these are respectively *Cyprideis seminulum* (Reuss), *C. pannonica* (Mehes), *C. anatolica* Bassiouni, *C. torosa* (Jones), *C. pontica* Krstic, *Tyrrhenocythere triebeli* Krstic, *Xestoleberis ventricosa* Mueller, *X. reymenti* Ruggieri, *Ilyocypris* cf. *gibba* (Ramdohr), *Heterocypris salina salina* (Brady) from the ostracods species and *Quinqueloculina seminula* (Linne), *Q. cf. lamarckiana* d'Orbigny, *Quinqueloculina* sp. 1, *Quinqueloculina* sp. 2, *Cibicidoides* sp., *Eponides concameratus* (Williamson), *Lobatula* (Walker & Jacobs), *Ammonia compacta* Hofker, *A. parkinsoniana* (d'Orbigny), *Porosonion subgranosum* (Egger), *Elphidium crispum* (Linne) from benthic foraminifera. Upper Eocene sediments contain following ostracods; *Cytherella triestina* Kollmann, *Bairdia subdeltoidea* (Muenster), *B. elongata* Lienenklaus, *B. cymbula* Deltel, *B. crebra* Deltel, *Bairdopilata* cf. *gliberti* Keij, *Triebelina punctata* Deltel, *Schizocythere appendiculata appendiculata* Triebel, *S. tessellata tessellata* (Bosquet), *Eucythere* sp. 1, *Eucythere* sp. 2, *Thracella apostolescui* Sönmez, *Krithe rutoti* Keij, *Echinocythereis isabenana* Oertli, *Leguminocythereis genappensis* Keij, *Nucleolina multicostata* (Deltel), *Pokornyella osnabrugensis* (Lienenklaus), *P. ventricosa* (Bosquet), *Hermanites pajenborchiana* Keij, *H. triebeli* Stchepinsky, *Quadracythere vermiculata* (Bosquet), *Q. hulusü* Sönmez-Gökçen, *Cytheretta tenuistriata* (Reuss), *C. bartonica* Sönmez-Gökçen, *Xestoleberis sublobosa* (Bosquet), *X. muelleriana* Lienenklaus, *Uroleberis* sp., *Paracypris contracta* (Jones) Among the foraminifera *Halkyardia minima* (Liebus), *Sphaerogypsina globula* (Reuss), *Asterigerina rotula* (Kaufmann), *Chapmanina gassinensis* (Silvestri), *Nummulites fabianii* (Prever), *N. striatus* (Bruguiere) are characteristic for this level. According to result of the drilling samples taken from the western part of the Bakırköy and Ataköy region, it is indicated that there were the restricted environments, and that salinity reduces depending on the shallowness in Late Miocene and shallow marine in Late Eocene in the region. In addition, it is observed that it changed to lagoonal and shallow marine in the Pliocene.