ABSTRACT. A first record of *Pleopsis schmackeri* (Poppe, 1889) (Branchiopoda, Onychopoda) in the Guanabara Bay, Rio de Janeiro, Brazil is described. This marine cladoceran species occurred in zooplanktonic samples obtained on June 26, 2000, with densities $\geq 4.0$ ind.$m^{-3}$. Its presence may be related with inflow of coastal waters to the bay.

KEY WORDS. Cladocera, *Pleopsis schmackeri*, zooplankton, Guanabara Bay, Brazil

Cladocerans are small crustaceans that mainly inhabit fresh water, with only eight truly marine species (ONBE 1999). As compared with the rest of cladoceran species, the ecological characteristics of *Pleopsis schmackeri* (Poppe, 1889) are unknown. This is probably due to its very rare presence and low abundance in temperate and tropical waters. Its occurrence has been described mainly in waters from the South China Sea through northern Honshu (Japan); and sporadic records from the Aqaba Bay (Red Sea) and Madagascar (Indian Ocean). According to these reports, *P. schmackeri* may be considered warm water, coastal and oceanic species. In Brazilian waters, a single record was made by ROCHA (1985) in the coastal waters of São Paulo (24°27’S-47°05’W), on 24th June 1983.

The presence of *P. schmackeri* in the Guanabara Bay is an unexpected fact, because this cladoceran species had never been recorded before in spite of intense investigations in previous decades. This fact suggests that *P. schmackeri* does not participate in the zooplanktonic community of this bay. Guanabara Bay, Rio de Janeiro, southeastern Brazil (22°41’-23°56’S and 43°02’-43°18’W), has been classified as a coastal estuary with shallow and partially mixed waters.

The occurrence of *P. schmackeri* was observed during research about the dynamics of planktonic communities of the Guanabara Bay. The zooplanktonic samples were obtained in surface water, at a fixed station on the entrance of the bay. In a time series of sampling (from February 2 to August 1, 2000 with 3-4 day intervals), *P. schmackeri* was detected only in the triplicate samples taken on June 26, with mean densities $\geq 4.0$ ind.$m^{-3}$. Water temperature and salinity were 21.6°C and 35.2 respectively. Population was composing by parthenogenetic females only. Mean body length and fecundity of individuals were 420 µm and five embryos.female$^{-1}$ respectively. On that day, a strong intrusion of clearer and more saline...
oceanic waters was observed carrying several zooplanktonic species common in open ocean waters. It occurred probably due to approximation of the Brazil Current to the coast, as it is usual in the winter period (LUEDEMANN 1975). On account of these observations, and annual similarity with record performed by ROCHA (1985), it is suggested that *P. schmackeri* could be a common marine cladoceran species living in Brazilian coastal waters, and its may be recorded in neritic environments in winter, by influence of the Brazil Current displacement.

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REFERENCES

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