FIRST RECORD OF THE GENUS *ANUROPODIONE* BOURDON, 1967 (CRUSTACEA: ISOPODA: BOPYRIDAE) FROM SOUTH ATLANTIC

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The family Bopyridae is recognize as holoparasitic isopods, being found in branchial chamber or adhered to the pleon of decapods crustaceans, thereby causing deformations in regions of carapace of the host. The genus *Anuropodione* has a widespread distribution, occurring in all oceans, especially in deep zones, parasiting exclusively squat lobsters of the genus *Munida*. Based on that, in this work we report the first occurrence of the genus *Anuropodione* from South Atlantic, trough of record of the species *Anuropodione carolinensis*. The samples were carried out between 150 and 2068 m of depth in the continental slope of Potiguar Basin, Northeast of Brazil, between the states of Ceará (CE) and Rio Grande do Norte (RN). The specimens were collected on board of the R/V Seward Johnson in May 2011, through of the project “Avaliação da biota bentônica e planctônica da Bacia Potiguar e Ceará (Bpot)” coordinated by “Petróleo Brasileiro S/A (Petrobras)”. After sampled, the individuals were fixed in 70% ethanol, identified to species level and deposited in the carcinological collection of the “Museu de Oceanografia Prof. Petrônio Alves Coelho (MOUFPE)” at the Federal University of Pernambuco. A total of 416 specimens of *M. iris* were collected in Potiguar Basin, being 24 individuals (5.77%) showed parasites on carapace (branchial chamber), with the parasitization most frequently in adults without distinction of sex. The parasitisms in *M. iris* by the genus *Anuropodione* were observed only United States (North Carolina, Norfolk Canyon and Tom’s Canyon). All of the specimens of *M. iris* analyzed herein were parasitized by individuals of both sexes of *A. carolinensis*, which were observed occurring only at the depth of 400 m in Potiguar Basin, but the depth range of parasite *A. carolinensis* follow the bathymetric distribution of host. In Western Atlantic, the squat lobster *M. iris* has a large geographic distribution, occurring from the United States to Uruguay, being in Brazilian waters recorded from Potiguar Basin (present record), Alagoas, Bahia, São Paulo and Rio Grande do Sul. However, despite of the wide distribution of the host *M. iris*, the species of *A. carolinensis* has been recorded only from United States and Gulf of Mexico, being registered here for the first time in South Atlantic.

Keywords: *Munida iris*, *Anuropodione carolinensis*, deep-sea, Brazil, Parasite Isopod.