THE RECENT ARRIVAL OF THE NON-INDIGENOUS OYSTER *SACCOESTREA CUCULLATA* (BIVALVIA: OSTREIDAE) IN SOUTHEAST BRAZILIAN COAST

Paula Spotorno-Oliveira\textsuperscript{a,c}, Lais P.D. Naval-Xavier\textsuperscript{b}, Vanessa Simão do Amaral\textsuperscript{d}, Ricardo Coutinho\textsuperscript{b,c}, Sávio Henrique Calazans\textsuperscript{d}, Luciana Vieira Granthom-Costa\textsuperscript{d}, Frederico Tapajós de Souza Tâmega\textsuperscript{a,c}

\textsuperscript{a} Programa de Pós-Graduação em Oceanologia, Instituto de Oceanografia, Universidade Federal do Rio Grande – FURG, Rio Grande do Sul, Brazil. \textsuperscript{b} Programa de Pós Graduação em Biotecnologia Marinha, Instituto de Estudo do Mar Almirante Paulo Moreira/Universidade Federal Fluminense – IEAPM/UFF, Arraial do Cabo, RJ, Brazil. \textsuperscript{c} Departamento de Biotecnologia Marinha – BIOTECMAR, Departamento de Pesquisas, Instituto de Estudos do Mar Almirante Paulo Moreira (IEAPM), Arraial do Cabo, RJ, Brazil. \textsuperscript{d} Núcleo de Bentos Marinho – NUBEM, Universidade Federal do Espírito Santo/Centro Universitário Norte do Espírito Santo – UFES/CEUNES, Espírito Santo, ES, Brazil, \textsuperscript{*}e-mail: paula.spotorno@gmail.com

Rock oysters of the genus *Saccostrea* are widely distributed in tropical and subtropical regions around the world. *Saccostrea cucullata* (Born, 1778) is categorized as indigenous from the Indo-Pacific, south and east coasts of Africa and has been introduced in Hawaii, in the Mediterranean Sea, the Suez Canal and Panama (Atlantic coast). In Arraial do Cabo, an upwelling region in southeastern Brazilian coast, the non-indigenous (NI) oyster *S. cucullata* has been the subject of investigation in a port area (Forno Port). The examined material matches the morphological characteristics to *S. cucullata* from the Pacific Ocean. The NI oysters *S. cuculata* are confined to shallow waters at Forno Port, well-established in the pillars and breakwater as the most prominent taxon among the fouling community, growing with the native oysters along the midlittoral zone. *S. cuculata* is also cohabiting with an NI associated fauna including: *Eualites tulipa* (Rousseau in Chenu 1843) and *Isognomon bicolor* (Adams, 1845); and the following native fauna: the vermetid *Petaloonchus varians* (d’Orbigny 1839), the oysters *Crassostrea brasiliana* (Lamarck 1819) and *Ostrea* sp., the balanid *Tetraclita stalactifera* (Lamarck 1818), micromolluscs and small spirorbid polychaetes. The impact to the native benthic community is unknown, but our initial results suggest that this recent introduction could compete with the native equivalent mollusks species. Considering the connectivity of shipping vessels, *S. cuculata* may have been introduced at Arraial do Cabo by commercial vessels and would be easily spread. We predict the increase of its population densities to surrounding rocky shores due to intensive domestic recreational traffic boats in the region, and by natural dispersion of larvae. Future steps include efforts on monitoring this newly arrived population; elucidate some of the ecological aspects and also the potential of spread.

Financial support: PNPD/CAPES (PSO and FTST)