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Comparative study of condition factor, stomach analysis and some aspects of reproductive biology of two land crabs: *Cardiosoma armatum* (Herklots, 1851) and *Cardiosoma guanhumi* (Latreille, 1825) from a mangrove swamp ecosystem, Lagos - Nigeria

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A total samples of 858 of *Cardisoma armatum* and *Cardisom aguanhumi*) collected from the Lagos Lagoon mangrove area of the University of Lagos were studied for their frequency, distribution, growth and sex ratio and a comparative analysis was done on both crabs. Investigation into their length-weight relationships, growth pattern, condition factor, food and feeding habits were carried out. The calculated Chi-square (χ^2) test showed that male crabs of *Cardisoma armatum* and *Cardisoma guanhumi* were significantly ($p < 0.05$) more abundant than the female crabs. The Condition factor K values for the *Cardisoma armatum* and *Cardisom aguanhumi* ranged from 3.3 to 30.7 and 3.1 to 28.6 respectively. This research study indicates almost similar biological features for both species.

Biography

Elegbede Isa Olalekan obtained a Master degree in Marine sciences (Marine pollution and management) at the University of Lagos, Akoka and a bachelor degree in Fisheries and Aquatic biology at the Lagos state University, Ojo, Lagos, Nigeria. He is a member of some international organizations namely; American Fisheries Society, USA (AFS); Association for the science of Limnology and Oceanography Texas, USA (ASLO) and the International Society of Environmental Indicators (ISEI). He has worked as a Health Safety and Environmental officer HSE (Internship) in Nigeria, a Fisheries officer (internship) and a Project Officer. He has served as a member of the scientific and organising committee at the Interdisciplinary Conference of Earth system scientists understanding and interdisciplinary uncertainty, Hamburg, Germany. (2013). Due to interdisciplinary Interest, he also studied in Germany for a second Masters of science (MSc) programme in Environmental and resource management (ERM) at the Brandenburg University of Technology (BTU), Cottbus, Germany.

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