



## Growth patterns of Five Marine, Demersal fin and shell-fish From Nigerian Coastal Waters (Eastern Central Atlantic, FAO Area 34)

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### Abstract:

Growth patterns and condition factors of five marine demersal fin and shell fishes from Nigerian coastal water (FAO, Area 34) was studied. These were: *Parapenaeopsis atlantica*, *Penaeus monodon*, *Penaeus notialis*, *Portunus validus* and *Cynoglossus browni*. Five hundred and six (506) specimen were sampled from 32 fishing trawlers owned by Olokun Pisces Limited (Lat N 60 28' 24", Long E 30 22' 50") and assessed for morphometric data. Study revealed the Mean weight (Mean $\pm$ SE) of *P. atlantica*, *P. monodon*, *P. notialis*, *P. validus* and *C. browni*:  $9.42 \pm 0.26$ ,  $96.79 \pm 2.38$ ,  $26.82 \pm 1.34$ ,  $284.09 \pm 7.34$  and  $411.09 \pm 15.27$ g respectively. The Length - weight relationship (LWR) showed that all species had positively allometric growth, except for *P. atlantica*, which had a negative allometric growth of  $b = 1.03 (<3)$ . The condition factor (K-factor) was highest in *P. validus* (8.77) and lowest in *C. browni* (0.412). Further analysis to determine the distribution of individual species using boxplots indicated that *P. atlantica* and *P. notialis* are similar for the entire variables considered. Relatively, weak positive correlation was observed between body depth and weight. However, Environmental considerations should be given priority because the condition of well-being of the fishes shows relative/marginal growth.



### Biography:

Dr. Adeboyejo, O. A. has been a PhD degree holder since 2015 at the age of 45years obtained from the Federal University of Agriculture and Technology Akure (FUTA), Nigeria. He is currently a Senior Lecturer in the Department of Fisheries, Lagos State University, Nigeria and has published over 25 papers in reputed journals which has been submitted for promotion to the post of Associate Professor. He is an Associate member of Fisheries Society of Nigeria (FISON).

### Recent Publications:

1. Heavy-Metals as Environmental Health Indicator of the Lagos Lagoon Complex, Nigeria

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