

Introduction

- This research will characterize size and weight of *Iphigenia Brasiliana* that was collected in South Inlet Park in Boca Raton Florida.
- Their studies are mostly done in journal articles written in Portuguese, which makes it difficult for archeologists and biologists to have access to information about them.

Table 1. Average sizes for research done in Brazil from Silva et., al 2017.

	L (mm)	W (mm)
Average	45.0	35.8

Methods

Methods for this research include:

- Excavation test unit was 1m² with a depth of 1m in 10cm levels.
- Characterize size through getting the samples collected and measuring using a caliper
- Weighted the samples using a scale
- All of the data was collected and put into a table
- The average of the length, width and weight were taken and put into a bar graph with the standard error.



Figure 1. Picture showing the excavation site in South Inlet Park.

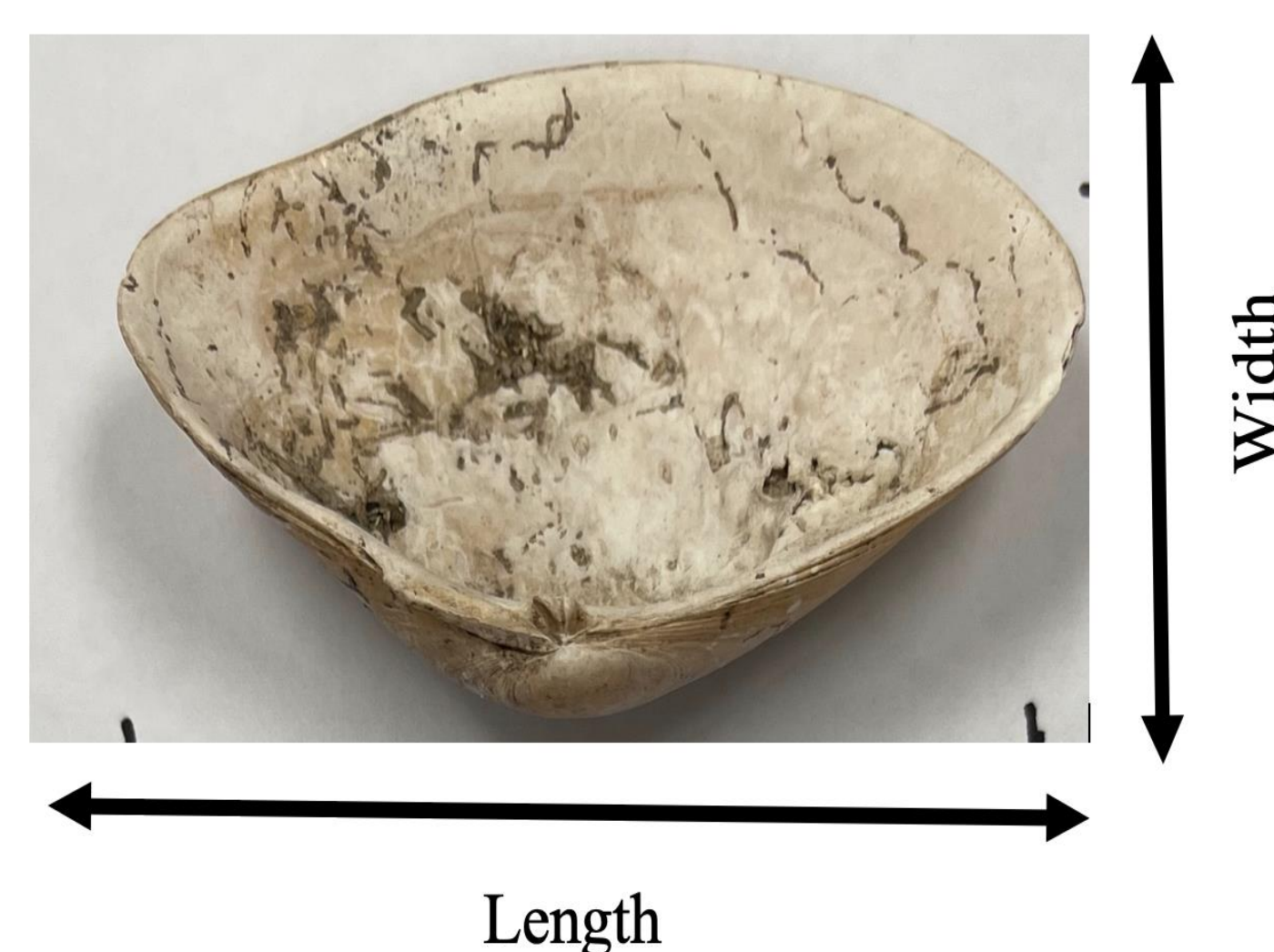


Figure 2. Demonstration of how measurements of the shells are going to be taken.

Preliminary Results

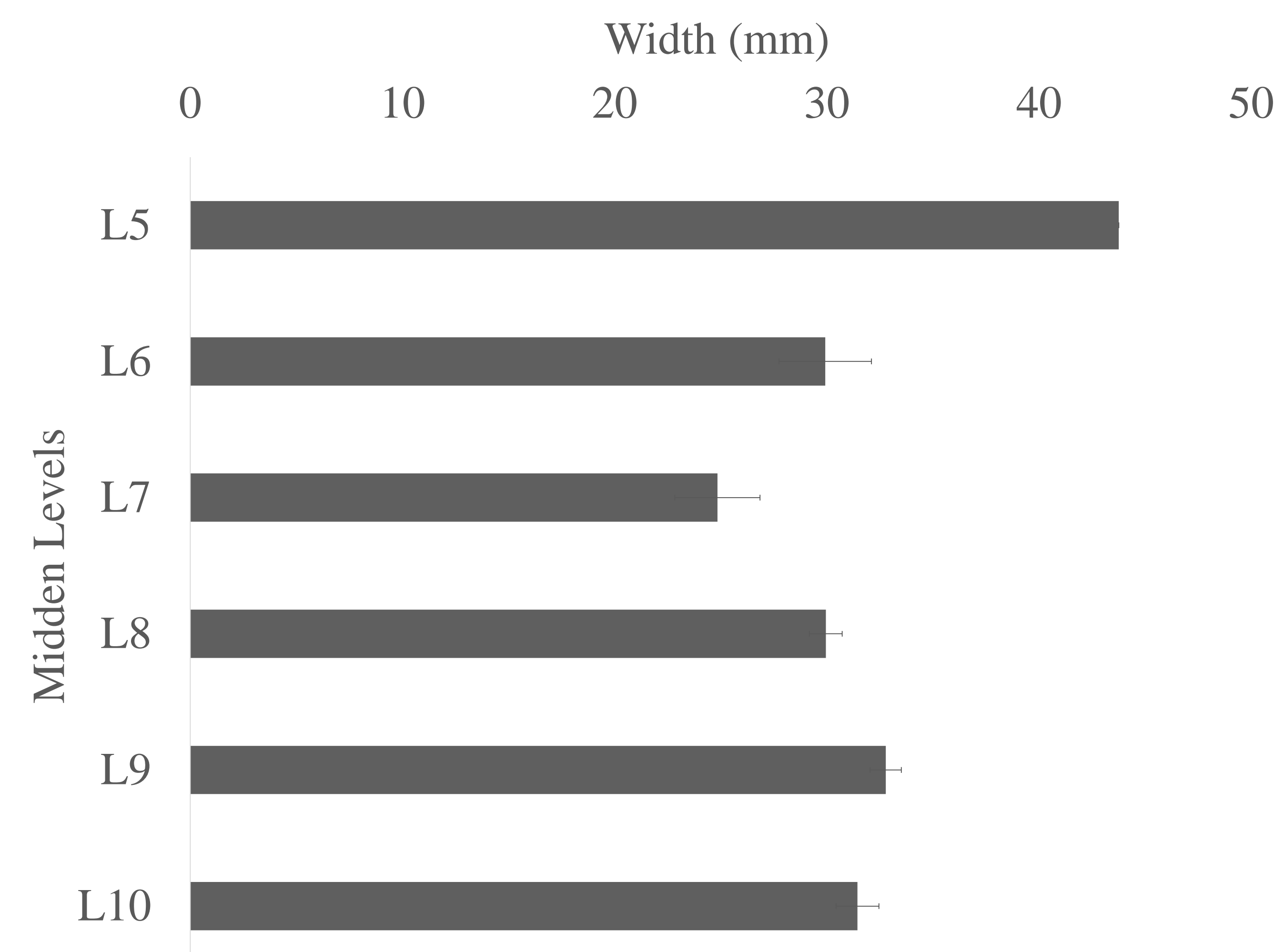


Figure 2. Average of the width in mm of the samples collected from level 5 being the youngest shell to level 10 being the oldest shells.

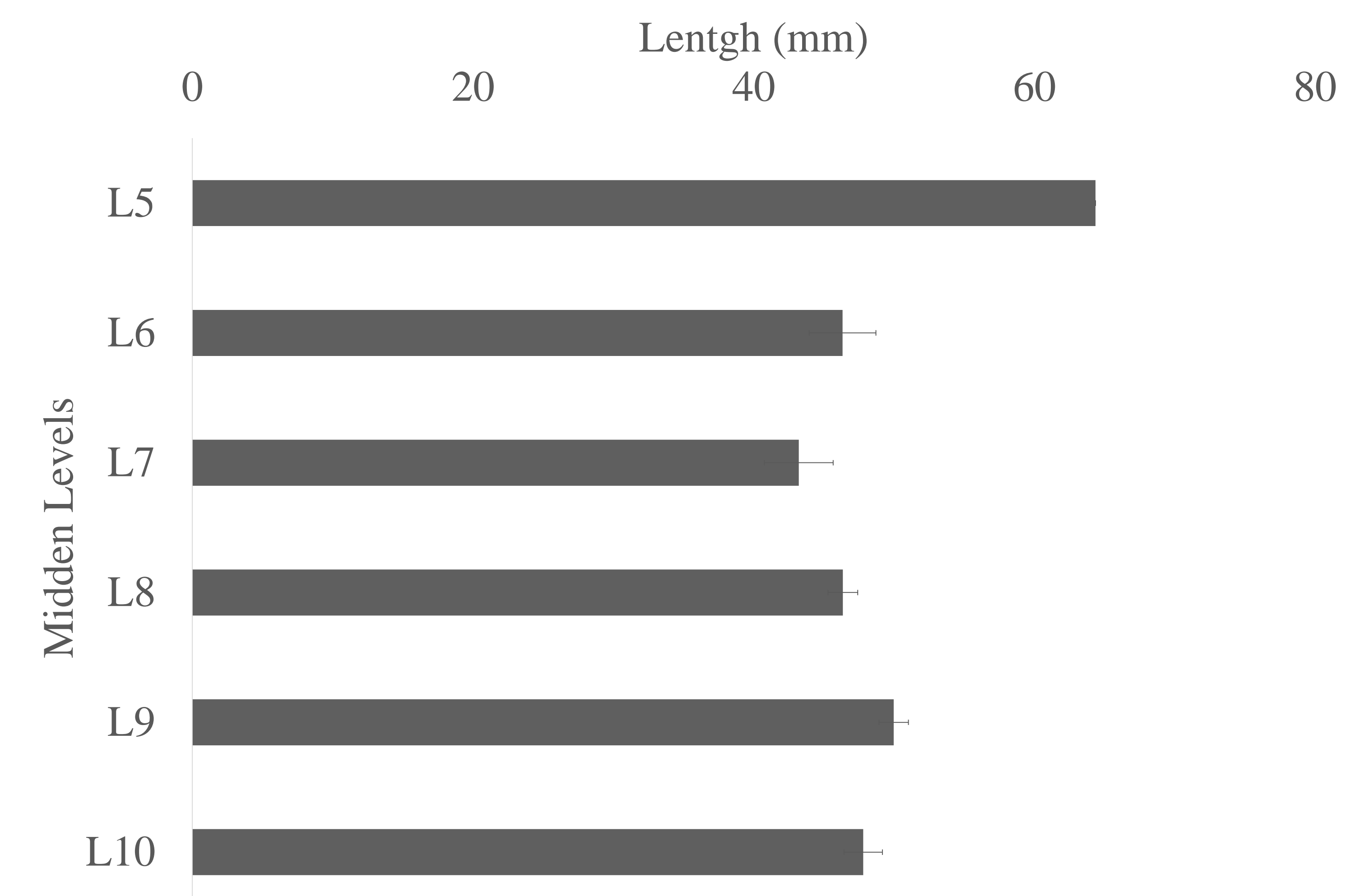


Figure 3. Average of the Length in mm of the samples collected from level 5 being the youngest shell to level 10 being the oldest shells.

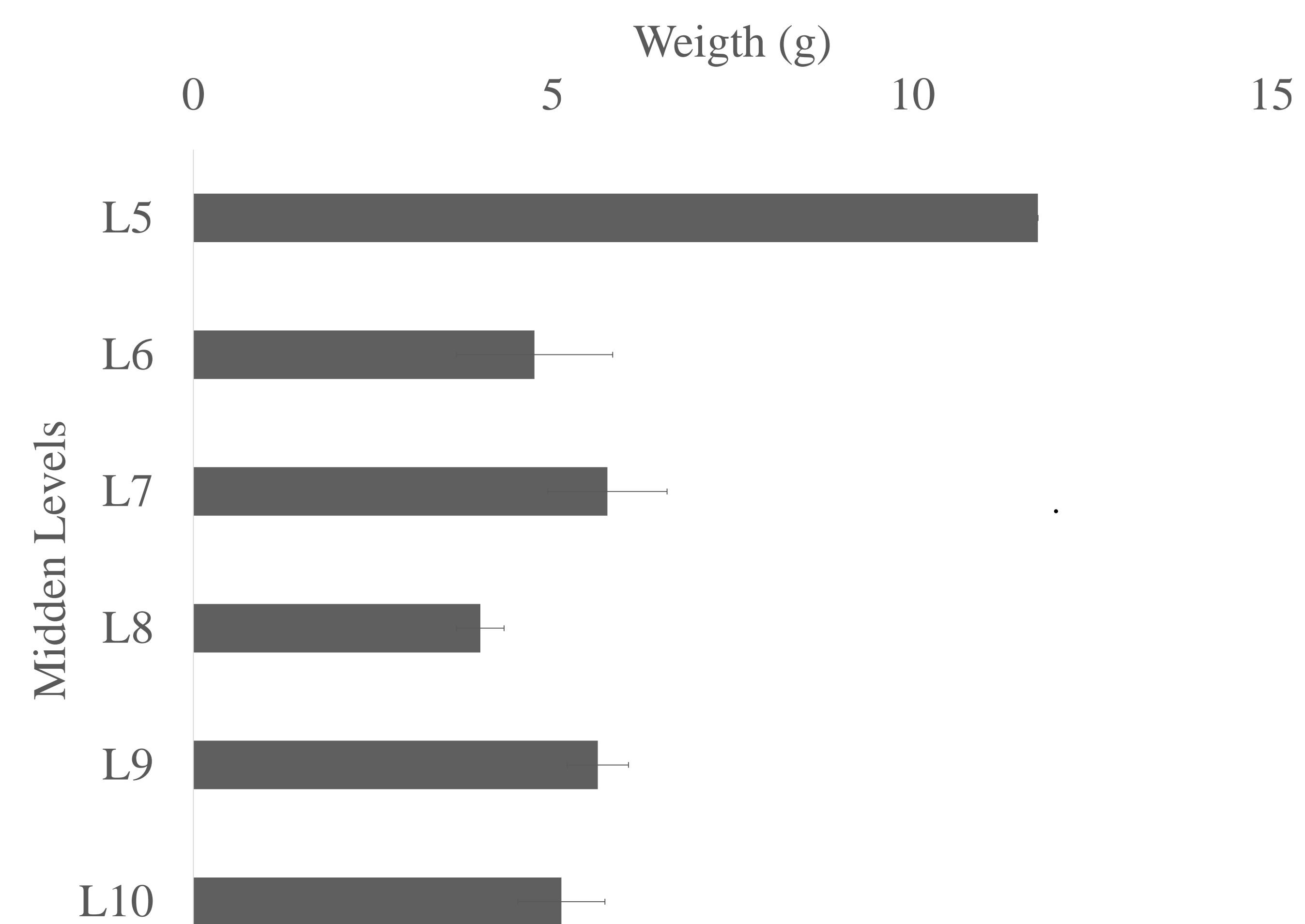


Figure 4. Average of the Weight in grams of the samples collected from level 5 being the youngest shell to level 10 being the oldest shells.

Discussion

With the data from the graphs, it is possible to see that the shells that were located at L5 which indicate the youngest shells had the biggest average out of the levels. When comparing to data coming from Brazil, we see higher numbers in both length and width in Florida from L5. Further study will be done in order to identify possible significant changes in environment or human influence with the species.

References

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- Silva, P., Peso Aguiar, M., & Da Paz, J. (2016). BIOMETRIA E PROPORÇÃO SEXUAL DE *Iphigenia brasiliana* (LAMARCK, 1818) (BIVALVIA, DONACIDAE) DA BAÍA DE GUARAPUÁ, CAIRU, BA. *Arquivos De Ciências Do Mar*, 49(2), 7. <https://doi.org/10.32360/acmar.v49i2.6551>