

# SPHAEROTHERIIDAE BRANDT, 1833 LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS

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**Abstract-** Latitudinal species richness was tested for a correlation with longitudinal species richness in pill millipedes *Sphaerotherium* and *Kylindotherium*. Species richness was correlated with latitude (Pearson's  $r=-0.88814059$ ,  $Z$  score= $-9.37312975$ ,  $n=47$ ,  $p=0$ ) and longitude (Pearson's  $r=-0.29021834$ ,  $Z$  score= $-1.98204594$ ,  $n=47$ ,  $p=0.02373698$ ). Latitudinal species richness was correlated with longitudinal species richness (Pearson's  $r=0.47003065$ ,  $Z$  score= $3.38368476$ ,  $n=47$ ,  $p=0.00035765$ ).

**Keywords:** latitude, longitude, Pill Millipedes.

## I. INTRODUCTION

Pill millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-442]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [441]. These pill millipedes have female-biased sexual size dimorphism [44].

Here, the latitude and longitude was tested for a correlation with species richness in southern African Sphaerotheriidae Brandt, 1833. Latitudinal species richness was checked for a correlation with longitudinal species richness.

## II. MATERIALS AND METHODS

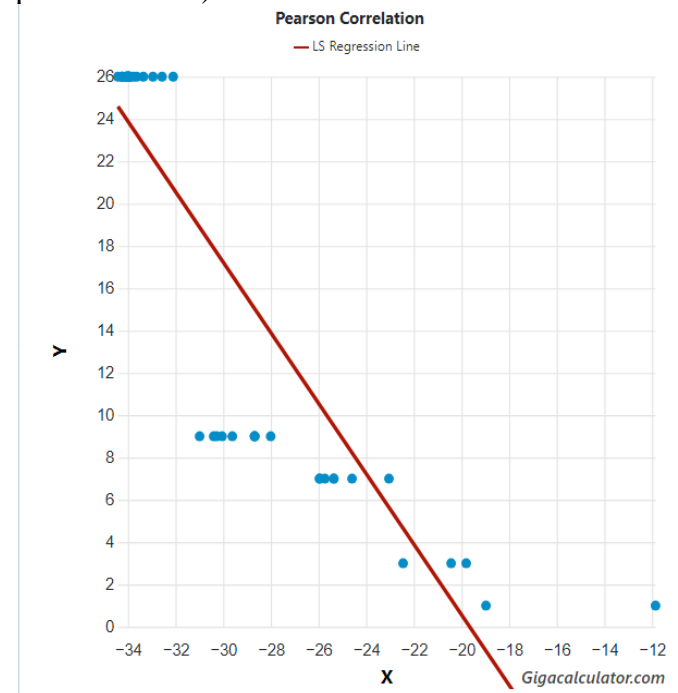
Latitudinal and longitudinal species richness was calculated for 47 southern African sphaerotheriids using the Easy Histogram Maker at

<https://www.socscistatistics.com/descriptive/histograms/default.aspx>. A correlation between latitude and longitude with species richness was generated at

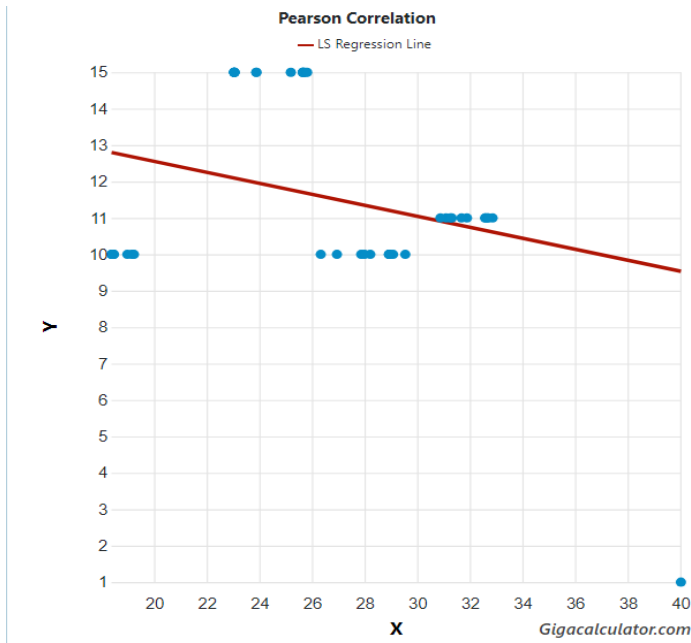
<https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> (Appendix 1-2). Latitudinal and longitudinal species richness was correlated using the same calculator.

## III. RESULTS

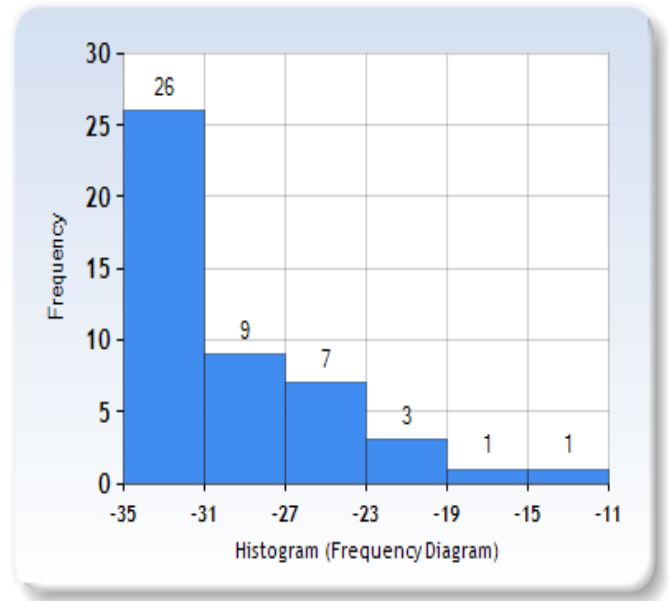
Species richness was correlated with latitude (Fig. 1: Pearson's  $r=-0.88814059$ ,  $Z$  score= $-9.37312975$ ,  $n=47$ ,  $p=0$ ; fig. 4) and longitude (Fig. 2: Pearson's  $r=-0.29021834$ ,  $Z$  score= $-1.98204594$ ,  $n=47$ ,  $p=0.02373698$ ; fig. 5). Latitudinal species richness was correlated with longitudinal species richness (Fig. 3: Pearson's  $r=0.47003065$ ,  $Z$  score= $3.38368476$ ,  $n=47$ ,  $p=0.00035765$ ).



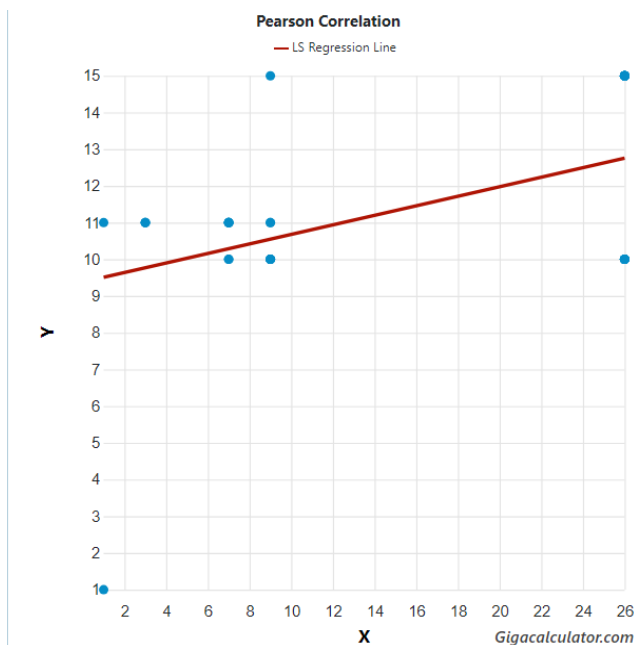
**Fig. 1. Correlation between species richness (y) and latitude (x) across the range of Sphaerotheriidae Brandt, 1833.**



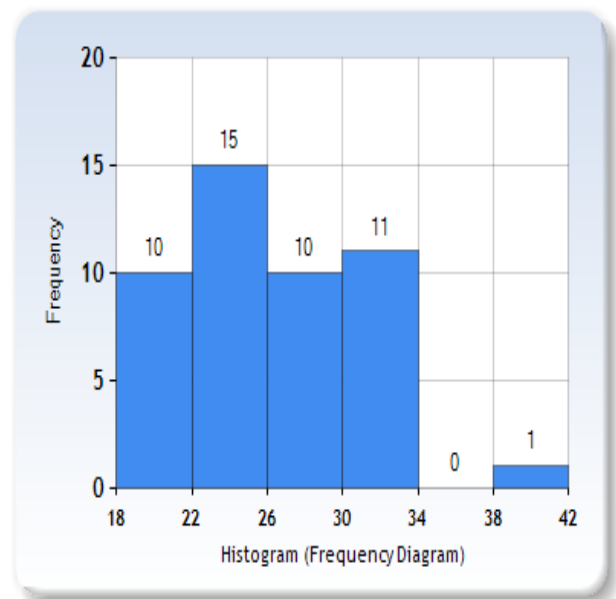
**Fig. 2. Correlation between species richness (y) and longitude (x) across the range of Sphaerotheriidae Brandt, 1833.**



**Fig. 4. Histogram showing species richness (y) and latitude (x) across the range of Sphaerotheriidae Brandt, 1833.**



**Fig. 3. Correlation between latitudinal species richness (x) and longitudinal species richness (y) across the range of Sphaerotheriidae Brandt, 1833.**



**Fig. 5. Histogram showing species richness (y) and longitude (x) across the range of Sphaerotheriidae Brandt, 1833.**

#### IV. DISCUSSION

There is a correlation between latitude and longitude with species richness in

Sphaerotheriidae. Latitudinal species richness correlates with longitudinal species richness.

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-33.9738, 26  
-33.9481, 26  
-28.0070, 9  
-33.6333, 26
- APPENDIX 1.** The latitude in southern African Sphaerotheriidae Brandt, 1833 followed by species richness.  
-30.2786, 9  
-25.9537, 7

<b>APPENDIX 2.</b> The longitude in southern	23.8866, 15
African Sphaerotheriidae Brandt, 1833	18.4030, 10
followed by species richness.	31.6860, 11
27.8721, 10	18.9833, 10.
32.5887, 11	
28.2184, 10	
18.4031, 10	
23.0479, 15	
26.3354, 10	
19.1510, 10	
18.4309, 10	
32.5887, 11	
25.6590, 15	
31.0970, 11	
23.0479, 15	
23.0479, 15	
18.4030, 10	
29.5483, 10	
25.7438, 15	
25.6590, 15	
25.6590, 15	
18.4598, 10	
32.6709, 11	
31.8923, 11	
28.9475, 10	
40.0250, 1	
31.3157, 11	
32.8667, 11	
19.2345, 10	
28.9276, 10	
25.1970, 15	
23.0479, 15	
30.8830, 11	
26.950, 10	
28.0000, 10	
32.7000, 11	
23.8866, 15	
31.2583, 11	
25.6667, 15	
25.8167, 15	
29.0833, 10	
23.0479, 15	
23.0479, 15	
28.9276, 10	
18.4746, 10	
18.3830, 10	