

LONGITUDE IS RELATED TO SPECIES RICHNESS IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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Abstract- Longitude was tested for a correlation with species richness in red millipedes *Centrobolus*. Longitude was related to species richness ($r=0.49062963$, Z score= 3.26576976 , $n=40$, $p=0.00054590$).

Keywords: longitude, Red Millipedes, species.

I. INTRODUCTION

Red millipedes are found in the southern African subregion with northern limits on the east coast being about -17° latitude S and southern limits being -35° latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-448]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [448]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [447]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, longitude was tested for a correlation with species richness in red millipedes *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Longitude measurements for 40 species of southern African *Centrobolus* were obtained from published material. A correlation between longitude with species richness was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1).

III. RESULTS

Longitude was related to species richness ($r=0.49062963$, Z score= 3.26576976 , $n=40$, $p=0.00054590$; Fig. 2).

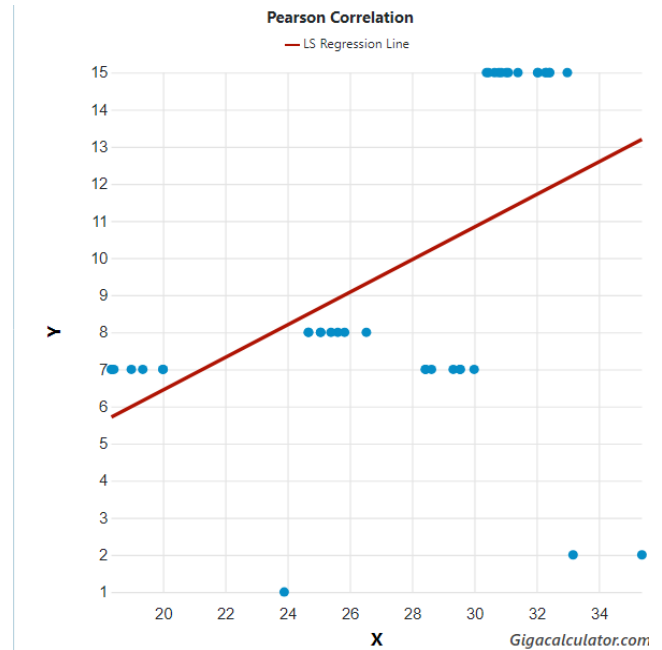


Fig. 1. Correlation between longitude (x) and species richness (y) across the range of *Centrobolus* Cook, 1897.

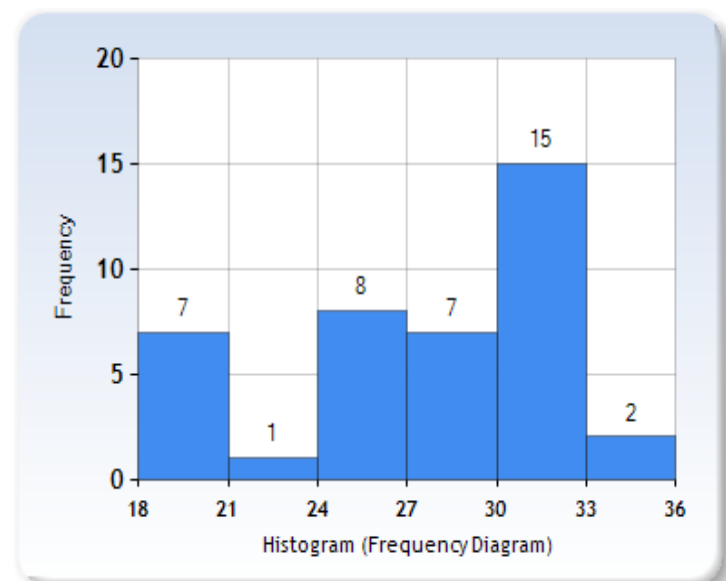


Fig. 2. Histogram showing species richness (y) across longitude in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between longitude and species richness in *Centrobolus*.

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- APPENDIX 1.** Longitude (degrees) and species richness across the range of *Centrobolus* Cook, 1897.
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|----------|----|
| 30.7856, | 15 |
| 26.5328, | 8 |
| 30.6500, | 15 |
| 20.0000, | 7 |
| 31.0894, | 15 |
| 24.6727, | 8 |
| 31.4000, | 15 |
| 18.3500, | 7 |
| 19.3500, | 7 |
| 24.6727, | 8 |
| 32.0377, | 15 |
| 33.1725, | 2 |
| 32.3167, | 15 |
| 31.0292, | 15 |
| 30.3928, | 15 |
| 25.8333, | 8 |
| 35.3833, | 2 |
| 25.6149, | 8 |
| 23.8934, | 1 |
| 20.0000, | 7 |
| 18.3435, | 7 |

28.4319, 7
32.0377, 15
30.4550, 15
32.4167, 15
29.9947, 7
32.2833, 15
25.3961, 8
18.9833, 7
28.4319, 7
25.0630, 8
28.6238, 7
32.4167, 15
25.0630, 8
29.5448, 7
18.4212, 7
30.8667, 15
29.3235, 7
32.9876, 15
29.5448, 7.