

# LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN PACHYBOLIDAE COOK, 1897

Mark I Cooper  
*University of South Africa.*

**Abstract-** Latitude was tested for a correlation with longitude in southern African Pachybolidae. Latitude was related to longitude ( $r=0.63857904$ ,  $Z$  score= $4.83929352$ ,  $n=44$ ,  $p=0.00000065$ ).

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

## I. INTRODUCTION

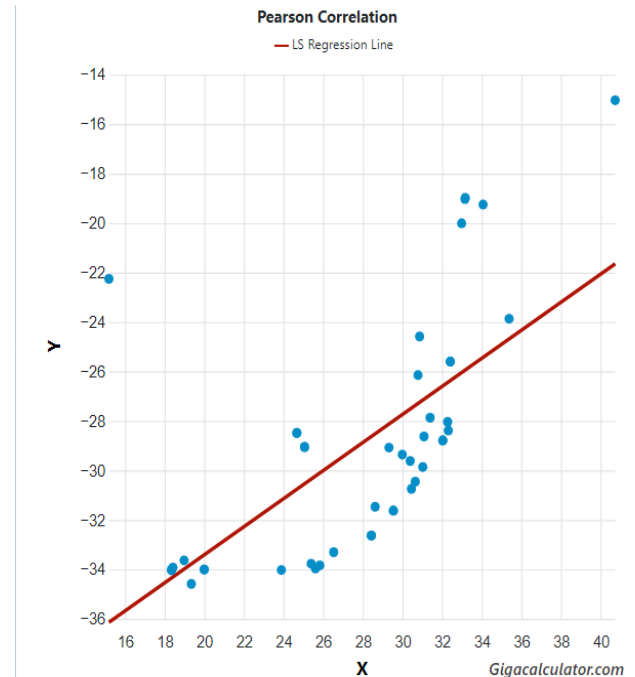
Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^{\circ}$  latitude S and southern limits being  $-35^{\circ}$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-445]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [445]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [444]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, latitude was tested for a correlation with longitude in southern African Pachybolidae Cook, 1897.

## II. MATERIALS AND METHODS

Latitude and longitude measurements for 44 species of southern African Pachybolidae were obtained from published material. A correlation between latitude with longitude was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1).

## III. RESULTS

Latitude was related to longitude (Fig. 1:  $r=0.63857904$ ,  $Z$  score= $4.83929352$ ,  $n=44$ ,  $p=0.00000065$ ).



**Fig. 1. Correlation between longitude (x) and latitude (y) across the range of southern African Pachybolidae Cook, 1897.**

## IV. DISCUSSION

There is a correlation between latitude and longitude in southern African Pachybolidae.

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31.0894, -28.6225  
24.6727, -28.4793  
31.4000, -27.8667  
18.3500, -34.0333  
19.3500, -34.5833  
24.6727, -28.4793  
32.0377, -28.7830  
33.1725, -18.9764  
32.3167, -28.3833  
31.0292, -29.8579  
30.3928, -29.61679  
25.8333, -33.8333  
35.3833, -23.8650  
25.61494, -33.9611  
23.8934, -34.0232  
20.0000, -34.0000  
18.34347, -34.0168  
28.4319, -32.6292  
32.0377, -28.7830  
30.4550, -30.7414  
32.4167, -25.6000  
29.9947, -29.3561  
32.2833, -28.0333  
25.3961, -33.7674  
18.9833, -33.6333  
28.4319, -32.6292  
25.0630, -29.0460  
28.62377, -31.4648  
32.41667, -25.6000  
25.0630, -29.0460  
29.5448, -31.6229  
18.4212, -33.9212  
30.8667, -24.5833  
29.3235, -29.0755  
32.9876, -20.0092  
29.5448, -31.6229  
34.0700, -19.2500  
40.7358, -15.0342  
33.1553 -19.0275  
15.1908 -22.2539.

**APPENDIX 1.** Longitude (degrees) and latitude (degrees) across the range of *Centrobolus* Cook, 1897.

30.7856, -26.1439  
26.5328, -33.3042  
30.6500, -30.4500  
20.0000, -34.0000