

# PRESSURE (AIR) IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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**Abstract-** Air pressure was tested for a correlation with latitude in red millipedes *Centrobolus*. Air pressure was related to latitude ( $r=-0.4305$ ,  $r^2=0.1853$ ,  $n=40$ ,  $p=0.00556$ ).

**Keywords:** latitude, Red Millipedes, species.

## I. INTRODUCTION

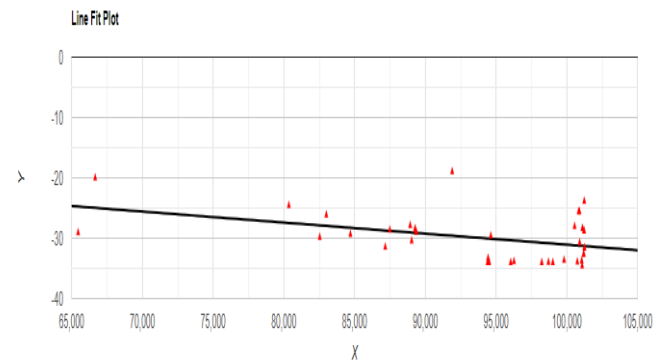
Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-448]. It consists of 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, latitude was tested for a correlation with air pressure in red millipedes *Centrobolus* Cook, 1897.

## II. MATERIALS AND METHODS

Latitude and longitude measurements for 40 species of southern African *Centrobolus* were obtained from published material. A correlation between air pressure with latitude was generated at <https://www.statskingdom.com/correlation-calculator.html> (Appendix 1-2). Air pressure was calculated for each type locality at <https://www.mide.com/air-pressure-at-altitude-calculator#>.

## III. RESULTS

Air pressure was related to latitude (Fig. 1:  $r=-0.4305$ ,  $r^2=0.1853$ ,  $n=40$ ,  $p=0.00556$ ).



**Fig. 1. Correlation between air pressure (x) and latitude (y) across the range of *Centrobolus* Cook, 1897.**

## IV. DISCUSSION

There is a correlation between air pressure with latitude in *Centrobolus*.

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 -34.0000  
 -28.6225  
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 -27.8667  
 -34.0333  
 -34.5833  
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 -32.6292  
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 -25.6000  
 -29.3561  
 -28.0333  
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 -33.6333  
 -32.6292  
 -29.0460  
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 -29.0460  
 -31.6229  
 -33.9212  
 -24.5833  
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**APPENDIX 1.** Latitude (degrees) across the range of *Centrobolus* Cook, 1897.

-26.1439  
 -33.3042

**APPENDIX 1.** Air pressure (Pa) across the range of *Centrobolus* Cook, 1897.

82999.80  
 94432.36  
 89029.49  
 94514.29  
 87489.32  
 89273.22



88925.30  
99011.94  
101081.59  
89273.22  
101217.67  
91896.79  
101098.53  
82535.24  
94628.43  
96264.51  
101231.84  
98700.86  
98227.90  
94397.04  
96033.92  
101192.47  
101217.67  
100905.86  
100835.13  
84703.96  
100549.26  
101051.94  
99803.35  
101192.47  
89353.51  
87164.50  
100891.81  
89353.51  
101241.52  
100739.77  
80349.81  
65455.24  
66661.05  
101241.52.