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

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**Abstract-** **Latitudinal species richness was tested for a correlation with air pressure in red millipedes *Centrobolus*. Latitudinal species richness was related to air pressure (r=0.32366916, Z score=2.04222806, n=40, p=0.02056439).**

***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° 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, latitudinal species richness was tested for a correlation with air pressure in red millipedes *Centrobolus* Cook, 1897.

## II. MATERIALS AND METHODS

Latitude measurements for 40 species of southern African *Centrobolus* were obtained from published material. A correlation between latitude with air pressure was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1). Air pressure was calculated for each type locality at https://www.mide.com/air-pressure-at-altitude-calculator#.

## III. RESULTS

Latitudinal species richness was related to air pressure (Fig. 1: r=0.32366916, Z score=2.04222806, n=40, p=0.02056439).

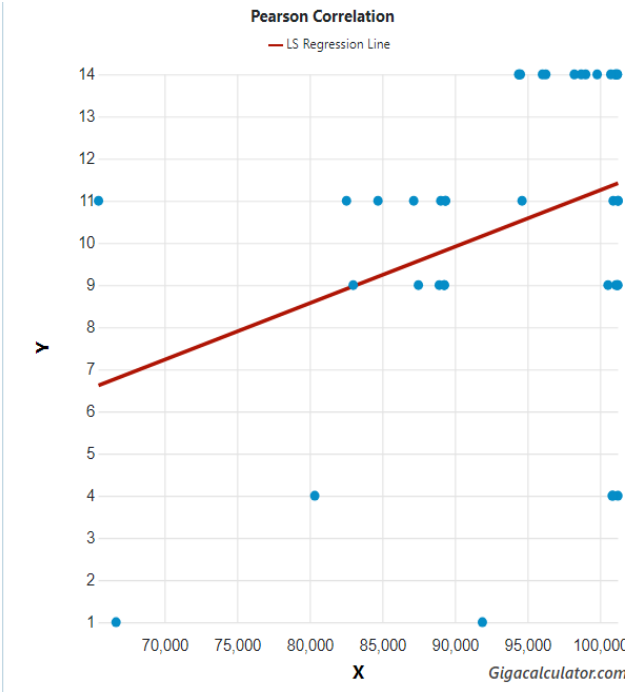


**Fig. 1. Correlation between latitudinal species richness (y) and air pressure (x) across therange of *Centrobolus* Cook, 1897.**

## IV. DISCUSSION

There is a correlation between latitudinal species richness and air pressure in *Centrobolus*.

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**APPENDIX 1**. Air pressure followed with latitudinal species richness across the range of *Centrobolus* Cook, 1897.

82999.80, 9
94432.36, 14
89029.49, 11
94514.29, 14
87489.32, 9
89273.22, 9
88925.30, 9
99011.94, 14
101081.59, 14
89273.22, 9
101217.67, 9
91896.79, 1
101098.53, 9
82535.24, 11
94628.43, 11
96264.51, 14
101231.84, 4
98700.86, 14
98227.90, 14
94397.04, 14
96033.92, 14
101192.47, 14
101217.67, 9
100905.86, 11
100835.13, 4
84703.96, 11
100549.26, 9
101051.94, 14
99803.35, 14
101192.47, 14
89353.51, 11
87164.50, 11
100891.81, 4
89353.51, 11
101241.52, 11

100739.77, 14
80349.81, 4
65455.24, 11
66661.05, 1
101241.52, 11.