

SPECIES RICHNESS IS RELATED TO LATITUDE, LONGITUDE AND AIR PRESSURE IN JULOMORPHIDAE VERHOEFF, 1924

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Abstract- Latitudinal species richness and longitudinal species richness was tested for a correlation with air pressure in Julomorph millipedes. Results of the multiple linear regression indicated that there was a very strong collective significant effect between the latitude, longitude, latitudinal species richness, longitudinal species richness, and air pressure, ($F(3, 14) = 11.42, p < .001, R^2 = 0.71, R^2_{adj} = 0.65$). The air pressure was related to longitude ($r = -0.6152, r^2 = 0.3785, n = 18, p = 0.00658$) and longitudinal species richness ($r = 0.6066, r^2 = 0.3679, n = 18, p = 0.007611$).

Keywords: latitude, longitude, Millipedes, richness, species.

I. INTRODUCTION

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 [1-445]. They occur in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [444]. Julomorphidae is predicted to have female-biased sexual size dimorphism [44].

Here, the latitude, longitude and air pressure was tested for a correlation with species richness in Julomorphidae Verhoeff, 1924.

II. MATERIALS AND METHODS

A correlation between species richness with latitude, longitude, and air pressure was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> (Appendix 1-5).

III. RESULTS

Multivariate Statistical Analysis

Results of the multiple linear regression indicated that there was a very strong collective significant effect between the latitude, longitude, latitudinal species richness, longitudinal species richness, and air pressure, ($F(3, 14) = 11.42, p <$

$.001, R^2 = 0.71, R^2_{adj} = 0.65$). The individual predictors were examined further and indicated that latitude ($t = 3.952, p = .001$) and longitude ($t = 3.928, p = .002$) and latitudinal species richness ($t = 4.285, p < .001$) were significant predictors in the MSA model.

Correlational Analysis

The air pressure was related to longitude ($r = -0.6152, r^2 = 0.3785, n = 18, p = 0.00658$) and longitudinal species richness ($r = 0.6066, r^2 = 0.3679, n = 18, p = 0.007611$).

IV. DISCUSSION

There is a correlation between species richness with the latitude, longitude and air pressure in Julomorphidae. Air pressure was significantly related to longitude and (longitudinal) species richness. This proves the MSA model was partly wrong as it predicted latitude and longitude as well as latitudinal species richness were significant predictors. The correlational analysis correctly showed longitude and longitudinal species richness to be predictors.

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APPENDIX 1. The latitude in southern African Julomorphidae Verhoeff, 1924.

-34.0197
 -33.2278
 -34.2300
 -33.9629
 -23.7952
 -34.2546
 -33.9629
 -34.1180
 -34.2546
 -29.2324

-34.1408
 -34.0226
 -33.6465
 -33.3689
 -32.5952
 -34.0197
 -34.0197
 -32.5952

APPENDIX 2. The longitude in southern African Julomorphidae Verhoeff, 1924.

23.8907
 21.8569
 19.4265
 18.4098
 27.9550
 18.4063
 18.4098
 18.4583
 18.4063
 29.2886
 19.9199
 20.4417
 19.4485
 19.3110
 26.9380
 23.8907
 23.8907
 26.9380.

Appendix 3. The latitudinal species richness (per three degrees longitude) in southern African Julomorphidae.

16
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Appendix 4. The longitudinal species richness
(per three degrees latitude) in southern African
Julomorphidae.

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10

2

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2

4

4

2

APPENDIX 5. The air pressure (Pa) in
Julomorphidae Verhoeff, 1924.

83104.89

98287.24

98287.24

94863.33

95504.68

100570.08

94863.33

101130.24

100570.08

75190.43

100385.99

99959.94

99565.14

93821.38

95575.47

83104.89

83104.89

95575.47.