

LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN JULOMORPHIDAE VERHOEFF, 1924

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Abstract- Latitude was tested for a correlation with longitude (and species richness) in southern African julomorph millipedes. The latitude was correlated with longitude (Pearson's $r=-0.6699$, $r^2=0.4488$, $n=18$, $p=0.002353$). The latitudinal species richness was related to the longitudinal species richness ($r=0.488$, $r^2=0.2382$, $n=18$, $p=0.0399$). The species richness was correlated with latitude (Pearson's $r=-0.91078290$, Z score= -5.93378922 , $n=18$, $p=0$). The species richness was correlated with longitude (Spearman's $r=-0.94868330$, Z score= -1.76623134 , $n=18$, $p=0.03867848$). Results of the multiple linear regression indicated that there was a very strong collective significant effect between the latitude, air pressure, and species richness, ($F(2, 15) = 55.12$, $p < .001$, $R^2 = 0.88$, $R^2_{adj} = 0.86$) and longitude, air pressure, and species richness, ($F(1, 16) = 141.66$, $p < 0.001$, $R^2 = 0.9$, $R^2_{adj} = 0.89$).

Keywords: air pressure, latitude, longitude, Millipedes, 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 [1-442]. They occur in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [441]. Julomorphidae is predicted to have female-biased sexual size dimorphism [44].

Here, the latitude was tested for a correlation with longitude (and species richness and air pressure) and latitudinal species richness with longitudinal species richness in southern African Julomorphidae Verhoeff, 1924.

II. MATERIALS AND METHODS

Latitudes and longitudes for 18 locations of 18 species of southern African Julomorphidae were obtained from a Checklist of Southern African millipedes. Species richness (per three degrees)

was calculated using the easy histogram maker at

<https://www.socscistatistics.com/descriptive/histograms/default.aspx>. A correlation between latitude with longitude (and latitudinal species richness with longitudinal species richness) was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>, <https://www.socscistatistics.com/tests/pearson/default2.aspx> and <https://www.statskingdom.com/correlation-calculator.html> (Appendix 1-4).

III. RESULTS

The latitude was correlated with longitude (Fig. 1: Pearson's $r=-0.6699$, $r^2=0.4488$, $n=18$, $p=0.002353$).

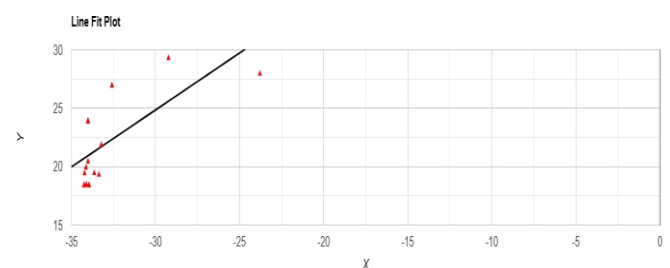


Fig. 1. Correlation between latitude (x) and longitude (y) across the range of Julomorphidae Verhoeff, 1924.

The latitudinal species richness was related to the longitudinal species richness (Fig. 2: $r=0.488$, $r^2=0.2382$, $n=18$, $p=0.0399$).

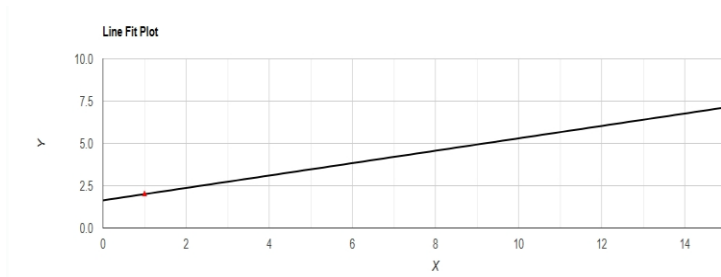


Fig. 2. Correlation between latitudinal species richness (x) and longitudinal species richness (y) across the range of southern African Julomorphidae Verhoeff, 1924.

The species richness was correlated with latitude (Fig. 3: Pearson's $r=-0.91078290$, Z score= -5.93378922 , $n=18$, $p=0$; Fig. 4).

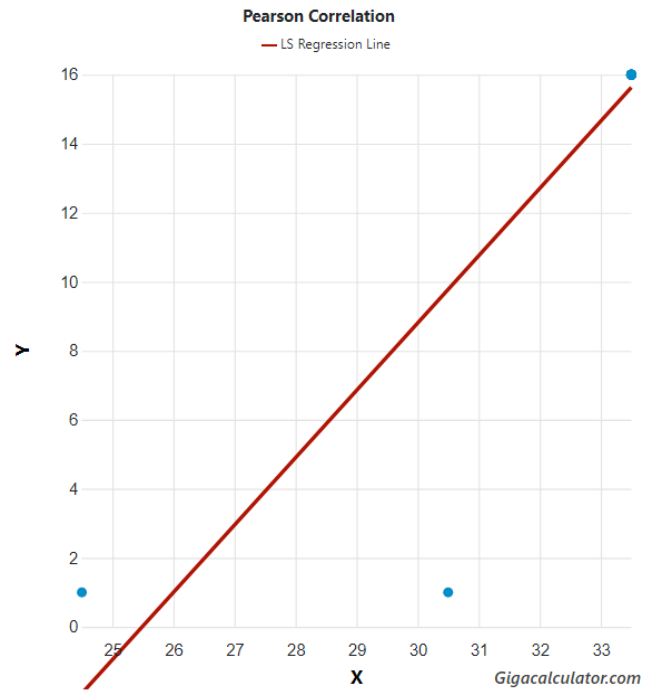


Fig. 4. Correlation showing species richness (y) with latitude (x) across the range of Julomorphidae Verhoeff, 1924.

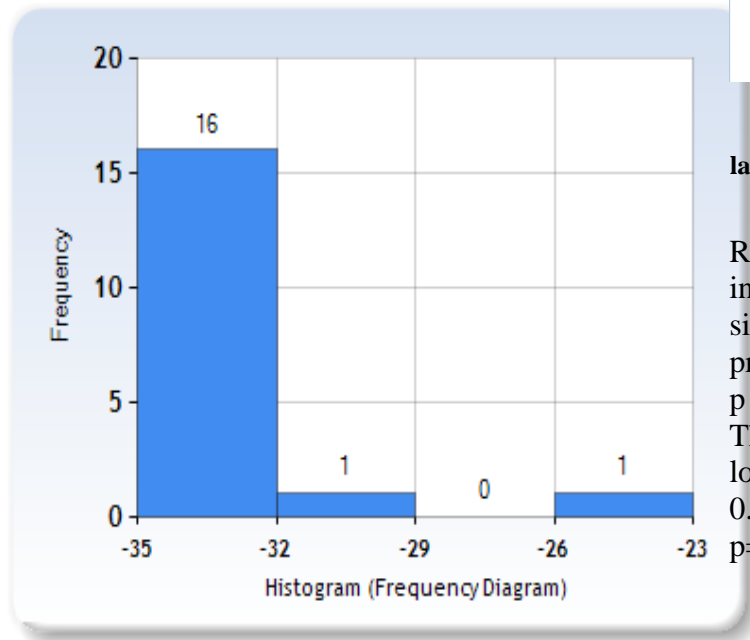


Fig. 3. Histogram showing species richness with latitude across the range of Julomorphidae Verhoeff, 1924.

Results of the multiple linear regression indicated that there was a very strong collective significant effect between the latitude, air pressure, and species richness, ($F(2, 15) = 55.12$, $p < .001$, $R^2 = 0.88$, $R^2_{adj} = 0.86$). The species richness was correlated with longitude (Fig. 5, Fig. 6.: Spearman's $r=-0.94868330$, Z score= -1.76623134 , $n=18$, $p=0.03867848$).

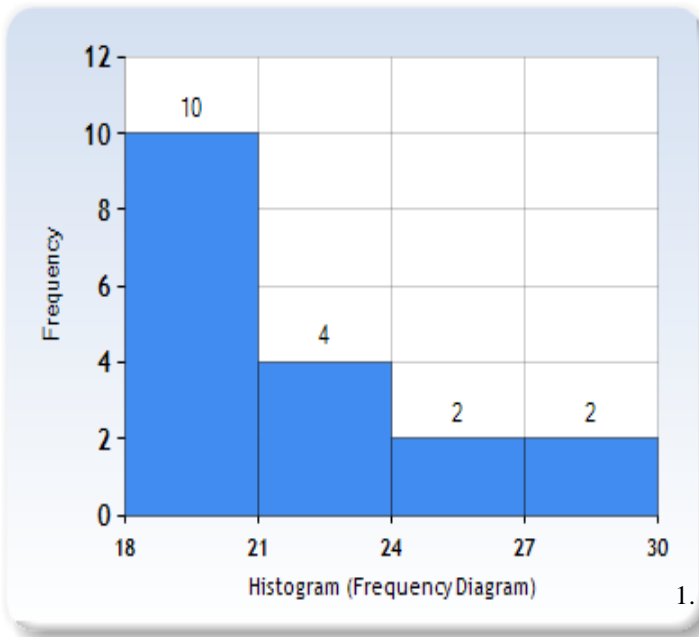


Fig. 5. Histogram showing species richness with longitude across the range of Julomorphae Verhoeff, 1924.

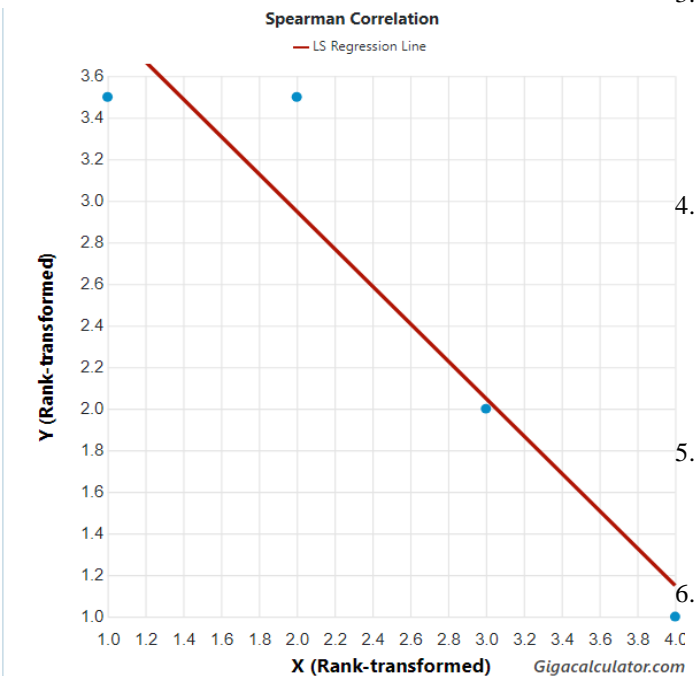


Fig. 6. Correlation showing species richness (y) with longitude (x) across the range of Julomorphae Verhoeff, 1924.

Results of the multiple linear regression indicated that there was a very strong collective

significant effect between the longitude, air pressure, and species richness, ($F(1, 16) = 141.66, p < 0.001, R^2 = 0.9, R^2_{adj} = 0.89$).

IV. DISCUSSION

There is a correlation between latitude with the longitude in southern African Julomorphae. There is also a correlation between latitudinal species richness with the longitudinal species richness in southern African Julomorphae. There is a correlation between species richness with the latitude and longitude in Julomorphae.

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18.409834
 18.45829
 18.406263
 29.28864
 19.9199137
 20.44171
 19.44852
 19.31095
 26.938
 23.8907
 23.8907
 26.938.

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

-34.0197
 -33.22779
 -34.2300
 -33.962864
 -23.79515
 -34.254570
 -33.962864
 -34.11799
 -34.254570
 -29.23235
 -34.140797
 -34.02262
 -33.64651
 -33.36889
 -32.5952
 -34.0197
 -34.0197
 -32.5952

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

16
 16
 16
 16
 1
 16
 16
 16
 16
 1
 16
 16
 16
 16
 16
 16
 16
 16

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

23.8907
 21.85686
 19.4265
 18.409834
 27.95498
 18.406263

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

4
 4
 10
 10

2	18.40983, 10
10	27.95498, 2
10	18.40626, 10
10	18.40983, 10
10	18.45829, 10
2	18.40626, 10
10	29.28864, 2
10	19.91991, 10
10	20.44171, 10
10	19.44852, 10
2	19.31095, 10
4	26.93800, 2
4	23.89070, 4
2	23.89070, 4
	26.93800, 2

APPENDIX 5. The latitude preceded with air pressure (Pa) and both followed by species richness in Julomorphidae Verhoeff, 1924.

83104.89, -34.0197, 16
98287.24, -33.22779, 16
98287.24, -34.2300, 16
94863.33, -33.962864, 16
95504.68, -23.79515, 1
100570.08, -34.254570, 16
94863.33, -33.962864, 16
101130.24, -34.11799, 16
100570.08, -34.254570, 16
75190.43, -29.23235, 1
100385.99, -34.1407972, 16
99959.94, -34.02262, 16
99565.14, -33.64651, 16
93821.38, -33.36889, 16
95575.47, -32.5952, 16
83104.89, -34.0197, 16
83104.89, -34.0197, 16
95575.47, -32.5952, 16.

APPENDIX 6. The longitude in Julomorphidae Verhoeff, 1924 followed by species richness.

23.89070, 4
21.85686, 4
19.42650, 10