

MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO HIGHEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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Abstract- Month with the highest number of rainy days was tested for a correlation with highest relative humidity in red millipedes *Centrobolus*. Month with the highest number of rainy days was related to highest relative humidity ($r=0.5636$, $r^2=0.3176$, $n=22$, $p=0.006258$).

Month with the highest number of rainy days was related to highest relative humidity (Fig. 1: $r=0.5636$, $r^2=0.3176$, $n=22$, $p=0.006258$).

Keywords: surface area, precipitation, Red Millipedes

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 [1-326]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [326]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [325]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, month with the highest number of rainy days is correlated with highest relative humidity in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 22 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The surface areas (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. A correlation between month with the highest number of rainy days and highest relative humidity was generated at

<https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

III. RESULTS

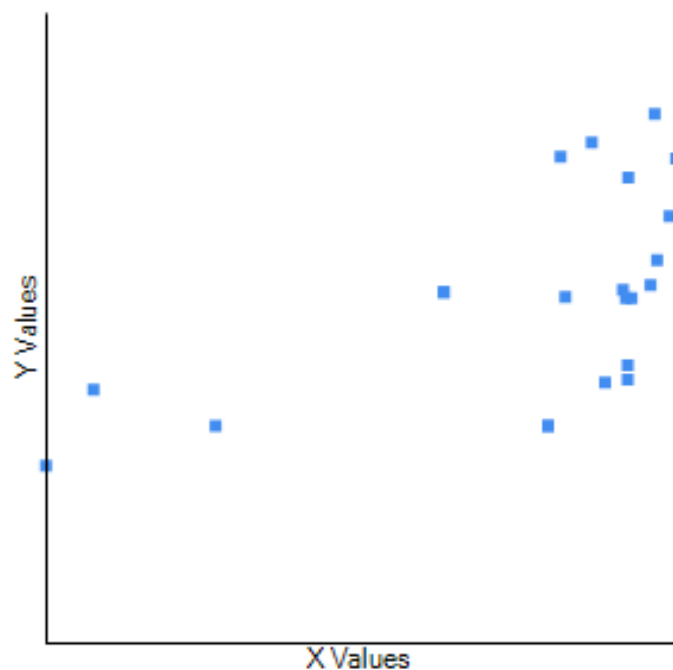


Fig. 1. Correlation between month with the highest number of rainy days and highest relative humidity across the range of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between month with the highest number of rainy days and highest relative humidity.

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APPENDIX 1. Month with the highest number of rainy days across the range of *Centrobolus* Cook, 1897.24.7

19.90
13.73
19.33
10.50
10.40
13.97
21.03
15.23
13.73
19.27
8.67

11.07
14.07
13.97
14.26
13.77
8.67
8.67
7.10
10.10
18.50
16.97

APPENDIX 2. Highest relative humidity (%)
across the range of *Centrobolus* Cook, 1897.

259.73
77.31
79.76
75.38
79.52
78.13
68.18
81.18
81.34
79.41
82.51
74.61
79.52
79.22
68.18
80.93
75.67
74.61
54.11
43.65
46.57
79.55
82.11