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THE DRIEST MONTHS VARIES WITH THE DISTANCE TO THE CLOSEST AIRPORT ACROSS THE DISTRIBUTION OF PILL MILLIPEDES *SPHAEROTHERIUM* BRANDT, 1833

M. I. Cooper
University of Stellenbosch, South Africa.

***Abstract*- The driest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833 was calculated. There was a marginal correlation between the driest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* (r=-0.7366, r^2=0.5326, n=7, p=0.05782; Pearson's r=0.73655358, Z score=1.88580773, n=7, p=0.02966037).**

***Keywords:* driest, months, Pill Millipedes, wettest.**

I. INTRODUCTION

Diplopoda are underrepresented in allometric analyses of SSD, although sexual differences are known in body mass, length, width and leg dimensions of over half the taxa studied [1-380]. Size differences occur with factors such as color, sexes, species, urbanisation and water relations. Diplopoda resemble the majority of invertebrates where SSD is reversed. SSD has consequences for the outcome of sexual encounters in diplopod mating. The macro-evolutionary patterns are being resolved in the class Diplopoda.
In the present study, the driest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833.

II. MATERIALS AND METHODS

The wettest months and the distance to the closest airport were obtained at https://en.climate-data.org/africa/south-africa across the distribution of seven pill millipedes Sphaerotherium Brandt, 1833 (https://www.entomoljournal.com/archives/2018/vol6issue1/PartI/5-6-352-508.pdf) (Appendix 1 & 2). A correlation between the wettest months and the distance to the closest airport was generated at https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php.

III. RESULTS

There was a marginal correlation between the driest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* (Fig. 1: r=-0.7366, r^2=0.5326, n=7, p=0.05782).

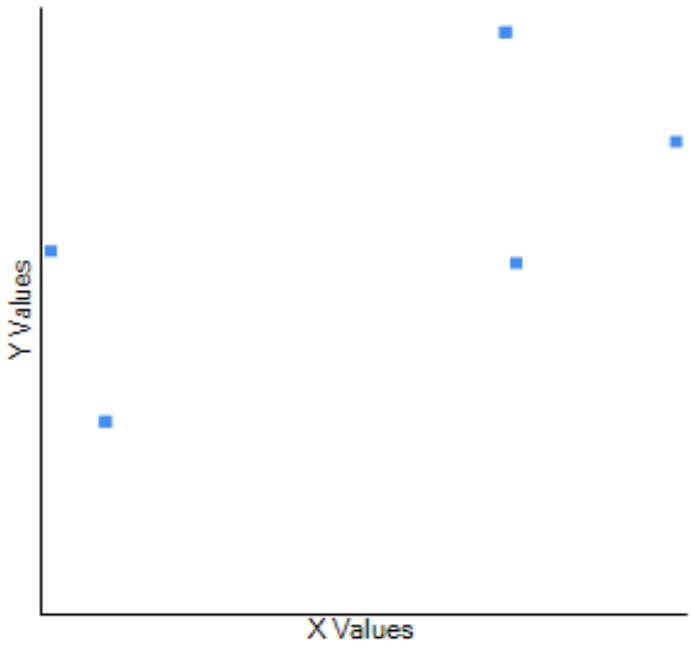

Fig. 1 A correlation between the driest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* .

IV. DISCUSSION

The significant effect of weather on males and females in size are known in this genus. There is a correlation between driest months with the distance to the closest airport. This is an addition to one of the many potential environmental effects on body size in pill millipedes.

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APPENDIX 1. The driest months (mm) in seven pill millipedes *Sphaerotherium* Brandt, 1833.

48
29
16
30
39
48
16

APPENDIX 2. The distance to the closest airport (km) across the distribution of seven pill millipedes *Sphaerotherium* Brandt, 1833.

61.52
62.72
17.12
11.09
80.45
61.52
17.12