

# THE DIFFERENCE BETWEEN THE DRIEST AND WETTEST MONTHS VARY 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 difference between the driest and wettest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833 was calculated. There was a correlation between the difference between the driest and wettest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* ( $r=-0.9217$ ,  $r^2=8495$ ,  $n=7$ ,  $p=0.000248$ ).

**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 [1-376]. 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 difference between the driest and wettest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833 was calculated.

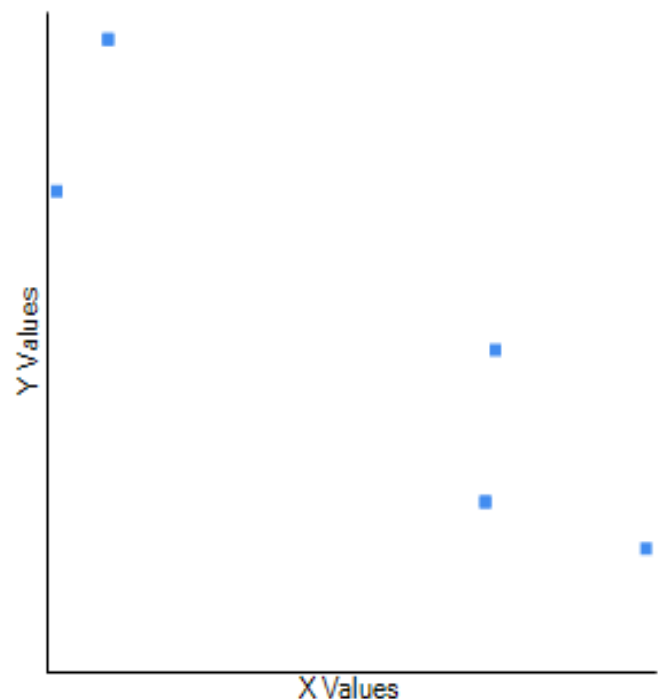
## II. MATERIALS AND METHODS

The difference between the driest and 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 driest and 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 correlation between between the difference between the driest and wettest months with the distance to the closest airport across the distribution of pill millipedes *Sphaerotherium* ( $r=-0.9217$ ,  $r^2=8495$ ,  $n=7$ ,  $p=0.000248$ ).



**Fig. 1** A correlation between between the difference between the driest and wettest 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 the between the difference

between the driest and wettest 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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17.12  
11.09  
80.45  
61.52
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**APPENDIX 1.** The difference between the driest and wettest months (mm) in pill millipedes

*Sphaerotherium* Brandt, 1833.

26

49

96

73

19

26

96

**APPENDIX 2.** The distance to the closest airport across the distribution of pill millipedes

*Sphaerotherium* Brandt, 1833.

61.52