

MEAN ANNUAL TEMPERATURE VARIES WITH THE HIGHEST AVERAGE TEMPERATURE IN DETERMINING THE SIZE OF FEMALE PILL MILLIPEDES *SPHAEROTHERIUM* BRANDT, 1833

M. I. Cooper

University of Stellenbosch, South Africa.

Abstract- The mean annual temperature with the highest average temperature across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833 was calculated. There was a correlation between the mean annual temperature with the highest average temperature across the distribution of pill millipedes *Sphaerotherium* ($r=0.9646$, $r^2=0.9305$, $n=7$, $p=0.000444$). These factors potentially determine the size of female pill millipedes.

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, a correlation between the mean annual temperature with the highest average temperature across the distribution of pill millipedes *Sphaerotherium* Brandt, 1833 was conducted.

II. MATERIALS AND METHODS

The mean annual temperature and the highest average temperature 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 two factors was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php>.

III. RESULTS

There was a correlation between the mean annual temperature with the highest average temperature across the distribution of pill millipedes *Sphaerotherium* (Fig. 1: $r=0.9646$, $r^2=0.9305$, $n=7$, $p=0.000444$).

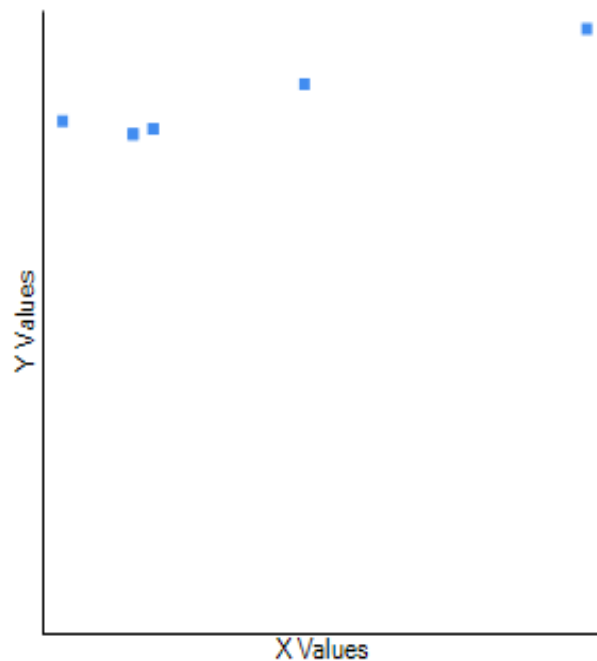


Fig. 1 A correlation between the mean annual temperature with the highest average temperature across the distribution of pill millipedes *Sphaerotherium*.

IV. DISCUSSION

The significant effect of weather on males and females in size are known in this genus. There is a correlation between the mean annual temperature with the highest average temperature. 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 mean annual temperature (degrees Celsius) in seven pill millipedes *Sphaerotherium* Brandt, 1833.

16.6
15.7
16.4
20.9
18.1
16.6
16.4

APPENDIX 2. The highest temperature (degrees Celsius) across seven pill millipedes *Sphaerotherium* Brandt, 1833.

20.3
20.6
20.1
24.3
22.1
20.3
20.1