

MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897 IS RELATED TO HIGHEST OCEAN WATER TEMPERATURE

M. IAN COOPER

University of South Africa.

57 Worcester Road, Parkwood 2193, Johannesburg, South Africa.

Abstract- Minimum ocean water temperature was tested for a correlation with maximum ocean water temperature in red millipedes *Centrobolus*. Minimum ocean water temperature was related to maximum water temperature ($r=0.65029831$, Z score= 1.90035197 , $n=9$, $p=0.02869341$).

Keywords: minimum, maximum, ocean, Red Millipedes, temperature.

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 [1-428]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [428]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [427]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, minimum and maximum ocean water temperature are correlated with each other in *Centrobolus* Cook, 1897.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 9 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii (r). The curved surface areas (mm^2) were calculated based on the equation Surface Area (Curved) = $2 \times \pi \times \text{Radius} \times \text{Height}$. A correlation between minimum and maximum ocean water temperature were generated at

<https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and

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

III. RESULTS

Minimum ocean water temperature was related to maximum water temperature (Fig. 1: $r=0.65029831$, Z score= 1.90035197 , $n=9$, $p=0.02869341$).

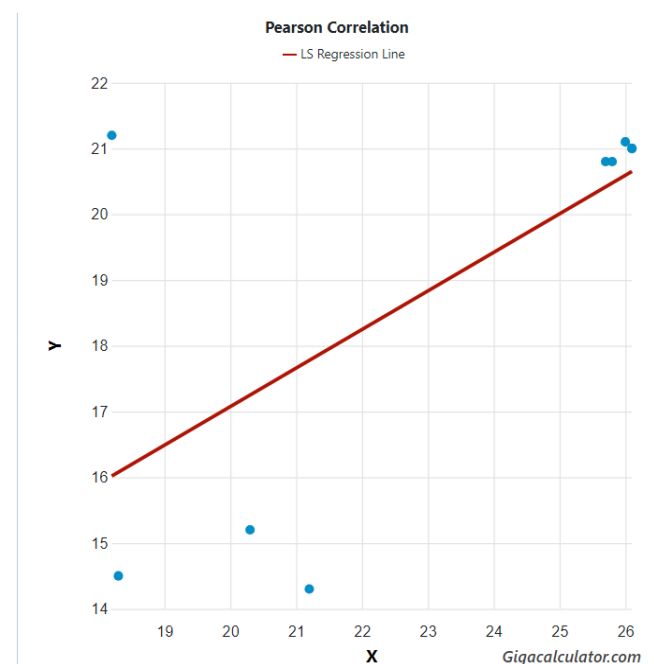


Fig. 1. Correlation between minimum and maximum ocean water temperature in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between minimum and maximum ocean water temperatures in *Centrobolus*.

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APPENDIX 1. Maximum and Minimum ocean temperature (degrees Celsius) in coastal *Centrobolus* Cook, 1897.

25.80, 20.80
18.30, 14.50
20.30, 15.20
26.10, 21.00
26.00, 21.10
21.20, 14.30
26.10, 21.00
18.20, 21.20
25.70, 20.80