

# MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897 IS RELATED TO SIXTEEN FACTORS

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**Abstract-** The mean ocean water temperature was tested for a correlation with sixteen factors in red millipedes *Centrobolus*. The mean ocean water temperature was correlated with temperature ( $r= 0.73989009$ ,  $Z$  score= $2.51408942$ ,  $n=10$ ,  $p=0.00596703$ ). Hours of sunshine throughout the year was correlated with mean ocean water temperature ( $r=-0.85918934$ ,  $Z$  score= $-3.41365378$ ,  $n=10$ ,  $p=0.00032054$ ). Highest number of daily hours of sunshine was tested for a correlation with minimum ocean water temperature ( $r=-0.89620481$ ,  $Z$  score= $-3.84320521$ ,  $n=10$ ,  $p=0.00006074$ ). Mean ocean water temperature was related to the month with the highest number of rainy days ( $r=0.89410766$ ,  $Z$  score= $3.81527948$ ,  $n=10$ ,  $p=0.00006804$ ). Mean ocean water temperature was related to surface area ( $r=0.69325882$ ,  $Z$  score= $3.52196906$ ,  $n=20$ ,  $p=0.00021422$ ). Mean ocean water temperature was related to maximum temperature ( $r=0.99347126$ ,  $Z$  score= $7.56872480$ ,  $n=10$ ,  $p=0$ ). Mean ocean water temperature was related to minimum temperature ( $r=0.97655914$ ,  $Z$  score= $5.86646695$ ,  $n=10$ ,  $p=0$ ). Lowest number of daily hours of sunshine was related to mean ocean water temperature ( $r=-0.98270730$ ,  $Z$  score= $-6.27298913$ ,  $n=10$ ,  $p=0$ ). Mean ocean water temperature was related to mating frequencies ( $r=0.92554221$ ,  $Z$  score= $5.86394325$ ,  $n=16$ ,  $p=0$ ). Mean ocean water temperature was related to precipitation ( $r=0.91556939$ ,  $Z$  score= $4.12980631$ ,  $n=10$ ,  $p=0.00001816$ ). Mean ocean water temperature was related to volume ( $r=0.77783676$ ,  $Z$  score= $2.54715113$ ,  $n=9$ ,  $p=0.00543034$ ). Mean ocean water temperature was not related to female width ( $r=0.38383862$ ,  $Z$  score= $0.99095039$ ,  $n=9$ ,  $p=0.16085490$ ). Mean ocean water temperature was marginally related to male width ( $r=0.82397874$ ,  $Z$  score= $2.86366258$ ,  $n=9$ ,  $p=0.00209393$ ). Combined male and female width was correlated with mean ocean water temperature ( $r=0.48311019$ ,  $Z$  score= $2.04119184$ ,  $n=18$ ,  $p=0.02061581$ ). Mean ocean water temperature was related to male length ( $r=0.85976914$ ,  $Z$  score= $3.16586450$ ,  $n=9$ ,  $p=0.00077318$ ). Mean ocean water temperature was related to female length ( $r=0.80476139$ ,  $Z$  score= $2.72378508$ ,  $n=9$ ,  $p=0.00322698$ ). Combined male and female length correlated with mean ocean water temperature ( $r=0.82018070$ ,  $Z$  score= $4.48247198$ ,  $n=18$ ,  $p=0.00000369$ ). Mean ocean water temperature was related to abundances ( $r=0.63046242$ ,  $Z$  score= $1.65957221$ ,  $n=8$ ,  $p=0.04850025$ ). Mean ocean water temperature was related to lowest duration of sunshine ( $r=-0.9671$ ,  $r^2=0.9353$ ,  $n=9$ ,  $p=0.000021$ ). Mean ocean water temperature was related to highest duration of sunshine ( $r=-0.9721$ ,  $r^2=0.945$ ,  $n=9$ ,  $p=0.000012$ ). The mean ocean water temperature was correlated with minimum precipitation ( $r=0.90328257$ ,  $Z$  score= $3.94156315$ ,  $n=10$ ,  $p=0.00004049$ ).

**Keywords:** Red Millipedes, temperature.

## I. INTRODUCTION

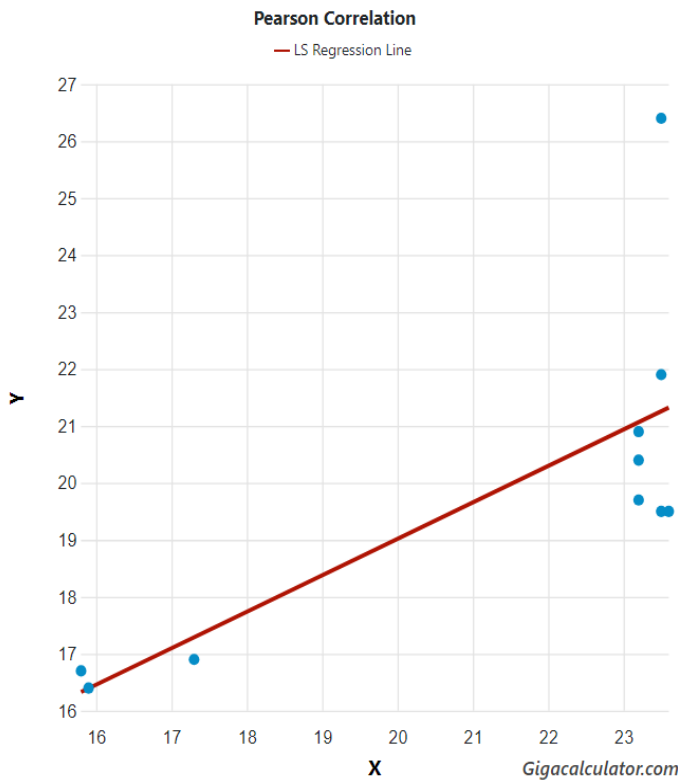
Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-427]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [427]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [426]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, the mean ocean water temperature was tested for correlations with sixteen factors in *Centrobolus* Cook, 1897.

## II. MATERIALS AND METHODS

Horizontal tergite width measurements for 10 species of southern African *Centrobolus* were obtained from published material [57]. These were halved to get radii ( $r$ ). The surface areas ( $\text{mm}^2$ ) were calculated based on the equation  $2 \cdot \pi \cdot r \cdot (r + h)$  for males and females. Correlations between the mean ocean water temperature with sixteen factors was generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1 & 2 respectively).

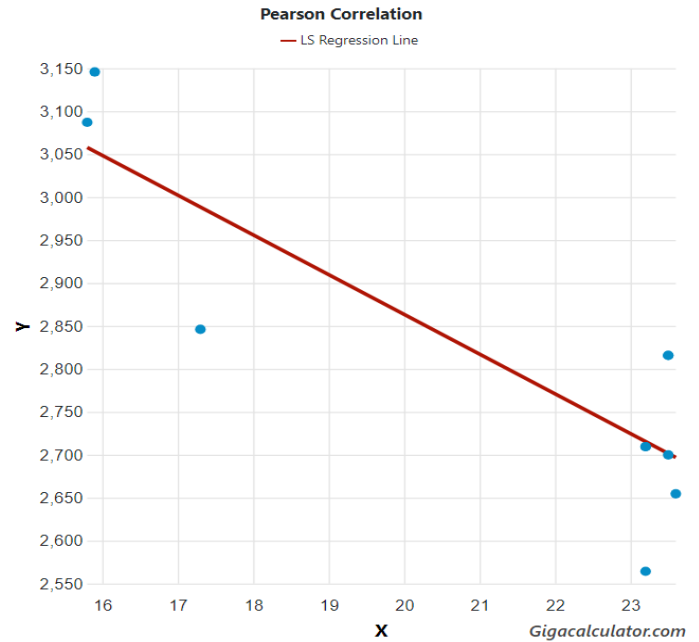
## III. RESULTS

The mean ocean water temperature was correlated with temperature (Fig. 1:  $r= 0.73989009$ ,  $Z$  score= $2.51408942$ ,  $n=10$ ,  $p=0.00596703$ ).



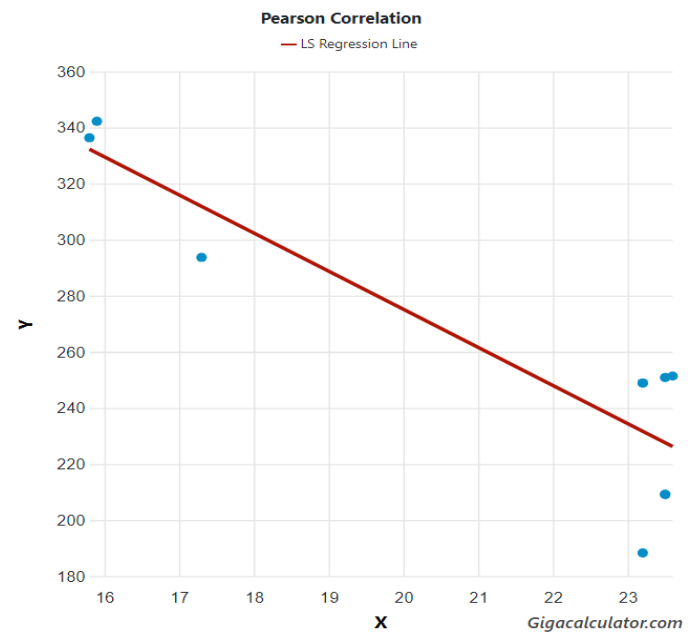
**Fig. 1. Correlation between the mean ocean water temperature (X) and average temperature (Y) across therange of *Centrobolus* Cook, 1897.**

Hours of sunshine throughout the year was correlated with mean ocean water temperature (Fig. 2:  $r=-0.85918934$ ,  $Z$  score= $-3.41365378$ ,  $n=10$ ,  $p=0.00032054$ ).



**Fig. 2. Correlation between Hours of sunshine throughout the year (y) and mean ocean water temperature (x) across therange of *Centrobolus* Cook, 1897.**

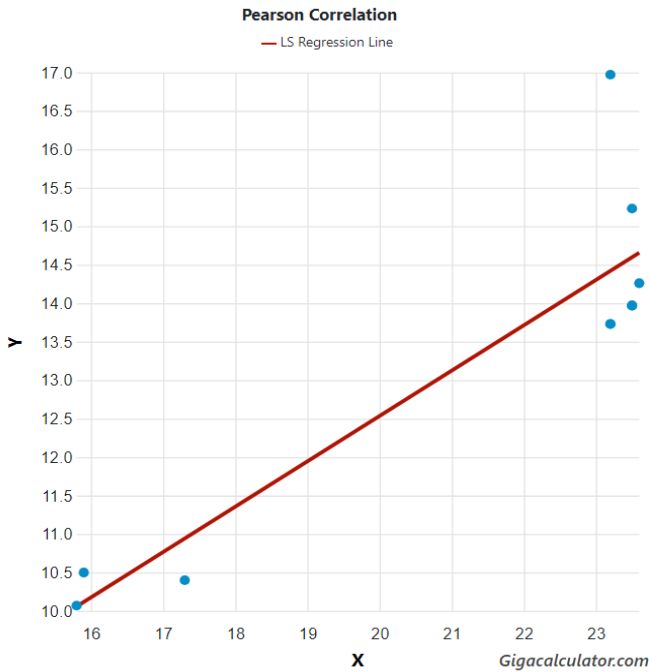
Highest number of daily hours of sunshine was tested for a correlation with minimum ocean water temperature (Fig. 3:  $r=-0.89620481$ ,  $Z$  score= $-3.84320521$ ,  $n=10$ ,  $p=0.00006074$ ).



**Fig. 3. Correlation between highest number of daily hours of sunshine in a month (y) and mean ocean**

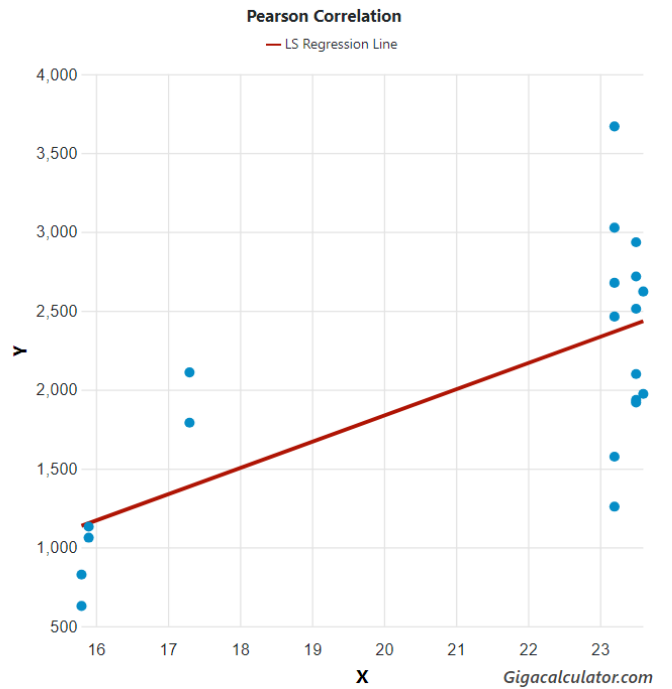
**water temperature (x) across therange of *Centrobolus* Cook, 1897.**

Mean ocean water temperature was related to the month with the highest number of rainy days (Fig. 4:  $r=0.89410766$ , Z score= $3.81527948$ ,  $n=10$ ,  $p=0.00006804$ ).



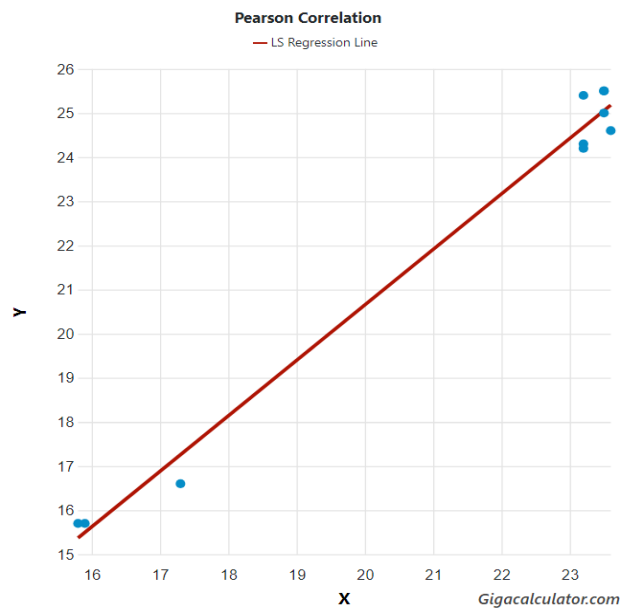
**Fig. 4. Correlation between mean ocean water temperature and month with the highest number of rainy days in *Centrobolus* Cook, 1897.**

Mean ocean water temperature was related to surface area (Fig. 5:  $r=0.69325882$ , Z score= $3.52196906$ ,  $n=20$ ,  $p=0.00021422$ ).



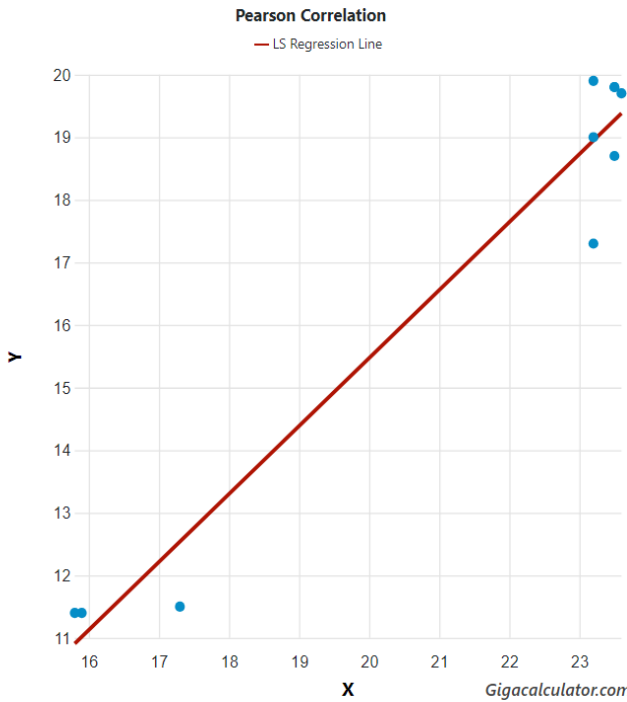
**Fig. 5. Correlation between mean ocean water temperature and surface area in *Centrobolus* Cook, 1897.**

Mean ocean water temperature was related to maximum temperature (Fig. 6:  $r=0.99347126$ , Z score= $7.56872480$ ,  $n=10$ ,  $p=0$ ).



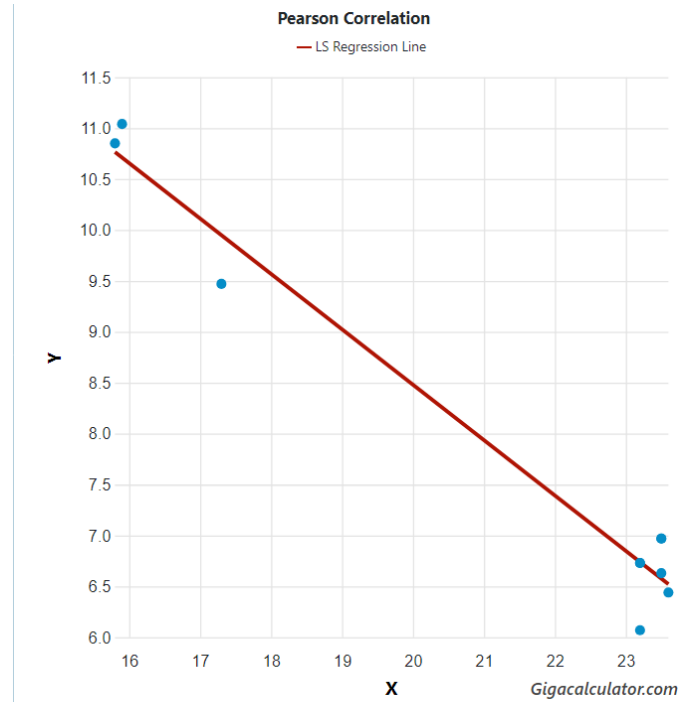
**Fig. 6. Correlation between mean ocean water temperature and maximum temperature variation in *Centrobolus Cook, 1897*.**

Mean ocean water temperature was related to minimum temperature (Fig. 7:  $r=0.97655914$ , Z score= $5.86646695$ ,  $n=10$ ,  $p=0$ ).



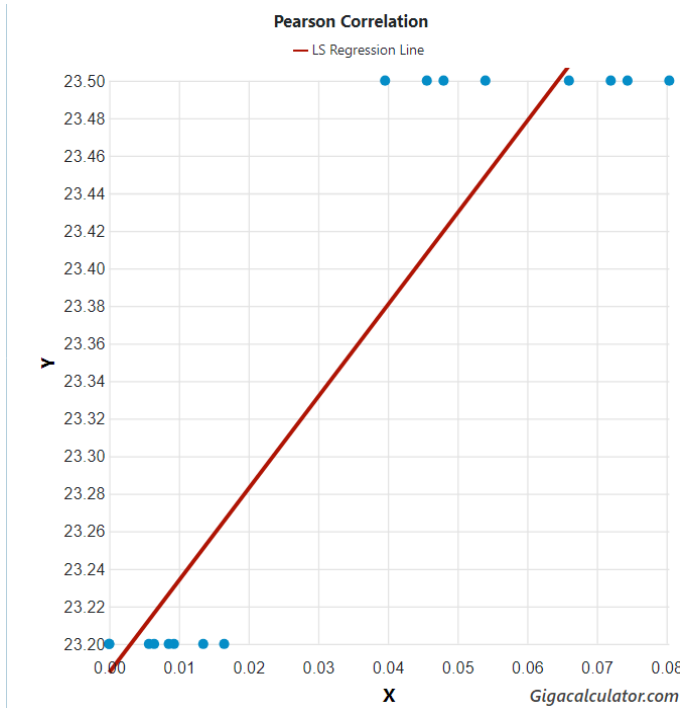
**Fig. 7. Correlation between mean ocean water temperature and minimum temperature variation in *Centrobolus Cook, 1897*.**

Lowest number of daily hours of sunshine was related to mean ocean water temperature (Fig. 8:  $r=-0.98270730$ , Z score= $-6.27298913$ ,  $n=10$ ,  $p=0$ ).



**Fig. 8. Correlation between lowest number of daily hours of sunshine in a month (Y) and mean ocean water temperature (X) across the range of *Centrobolus Cook, 1897*.**

Mean ocean water temperature was related to mating frequencies (Fig. 9:  $r=0.92554221$ , Z score= $5.86394325$ ,  $n=16$ ,  $p=0$ ).

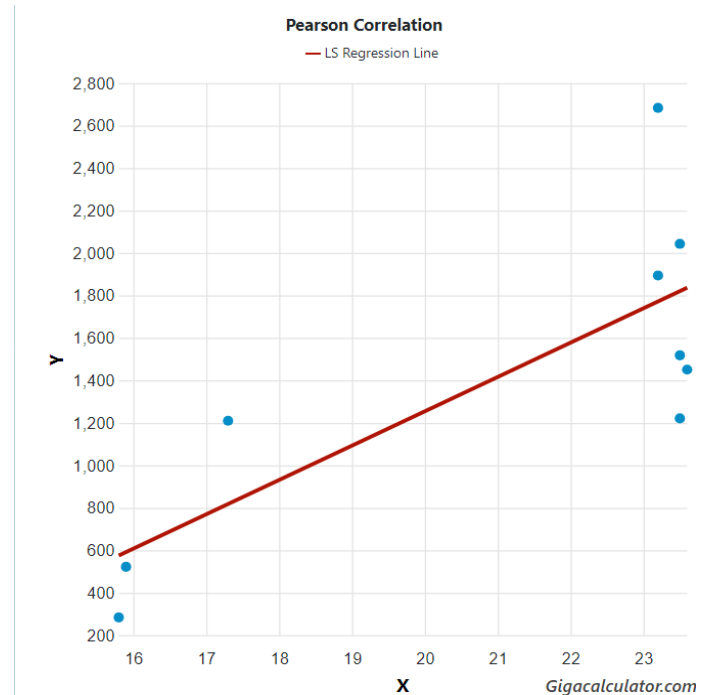


**Fig. 9. Correlation between mean ocean water temperature and mating frequencies in *Centrobolus* Cook, 1897.**

Mean ocean water temperature was related to precipitation (Fig. 10:  $r=0.91556939$ ,  $Z$  score= $4.12980631$ ,  $n=10$ ,  $p=0.00001816$ ).

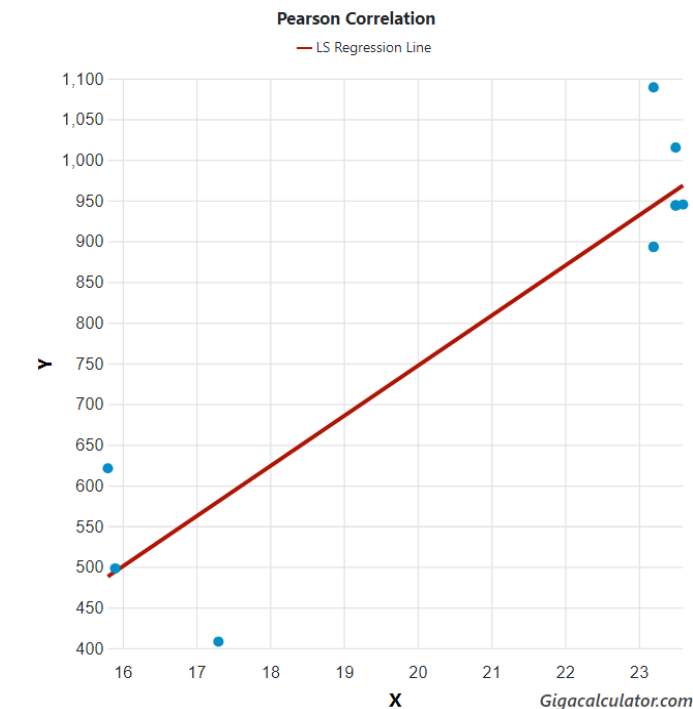
**Fig. 10. Correlation between mean ocean water temperature and precipitation in *Centrobolus* Cook, 1897.**

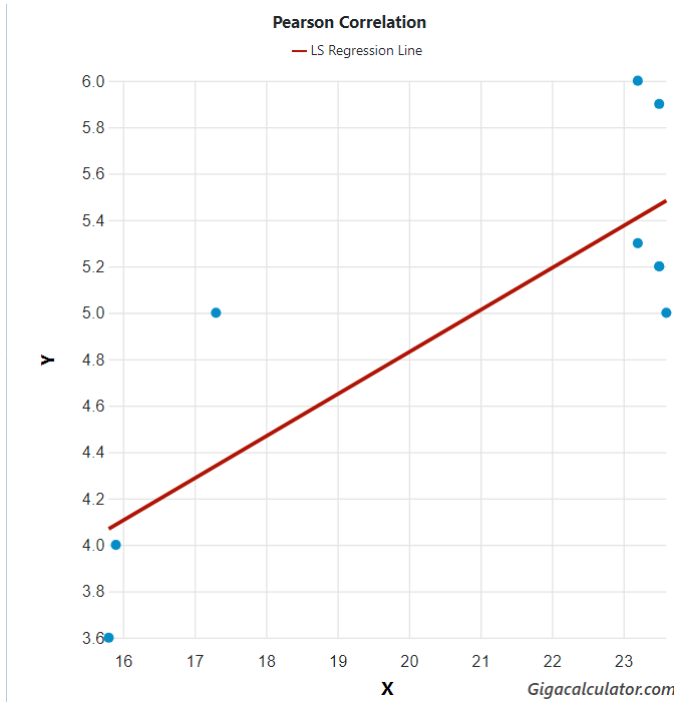
Mean ocean water temperature was related to volume (Fig. 11:  $r=0.77783676$ ,  $Z$  score= $2.54715113$ ,  $n=9$ ,  $p=0.00543034$ ).



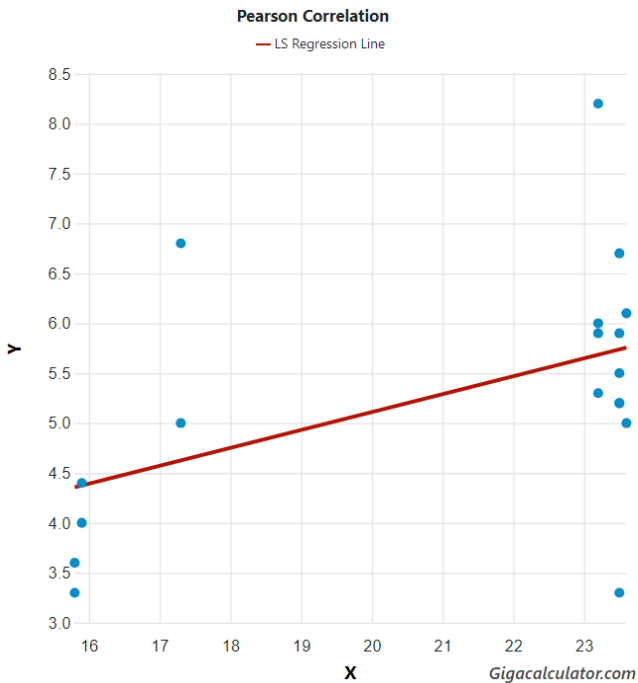
**Fig. 11. Correlation between mean ocean water temperature and volume in *Centrobolus* Cook, 1897.**

Mean ocean water temperature was not related to female width ( $r=0.38383862$ ,  $Z$  score= $0.99095039$ ,  $n=9$ ,  $p=0.16085490$ ). Mean ocean water temperature was marginally related to male width (Fig. 12:  $r=0.82397874$ ,  $Z$  score= $2.86366258$ ,  $n=9$ ,  $p=0.00209393$ ). Combined male and female width was correlated with mean ocean water temperature (Fig. 13:  $r=0.48311019$ ,  $Z$  score= $2.04119184$ ,  $n=18$ ,  $p=0.02061581$ ).



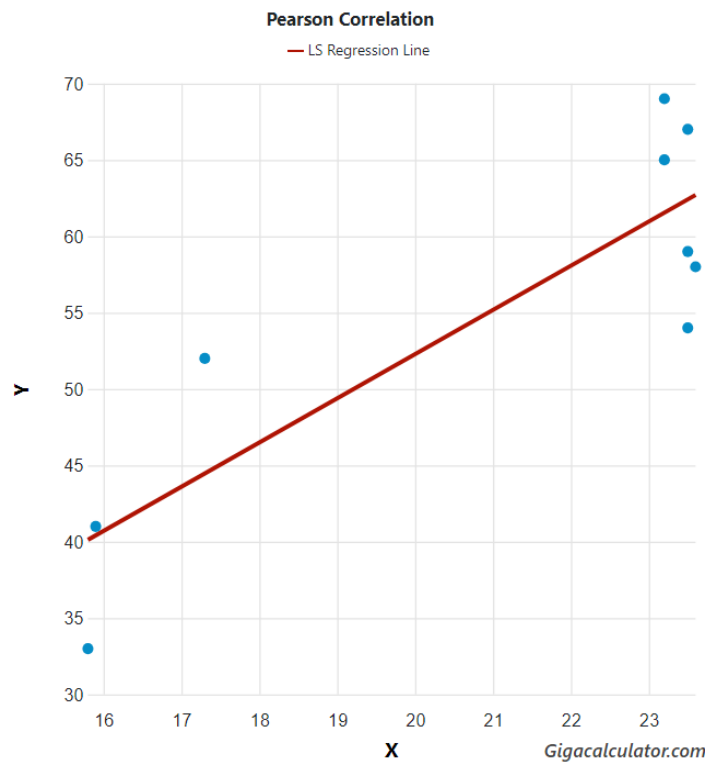


**Fig. 12. Correlation between mean ocean water temperature and male width in *Centrobolus Cook*, 1897.**

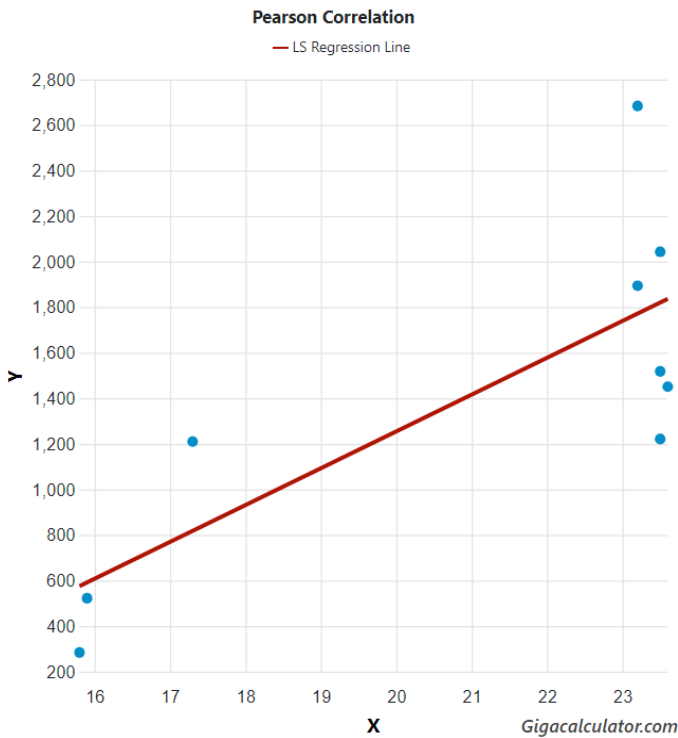


**Fig. 13. Correlation between mean ocean water temperature and male and female width in *Centrobolus Cook*, 1897.**

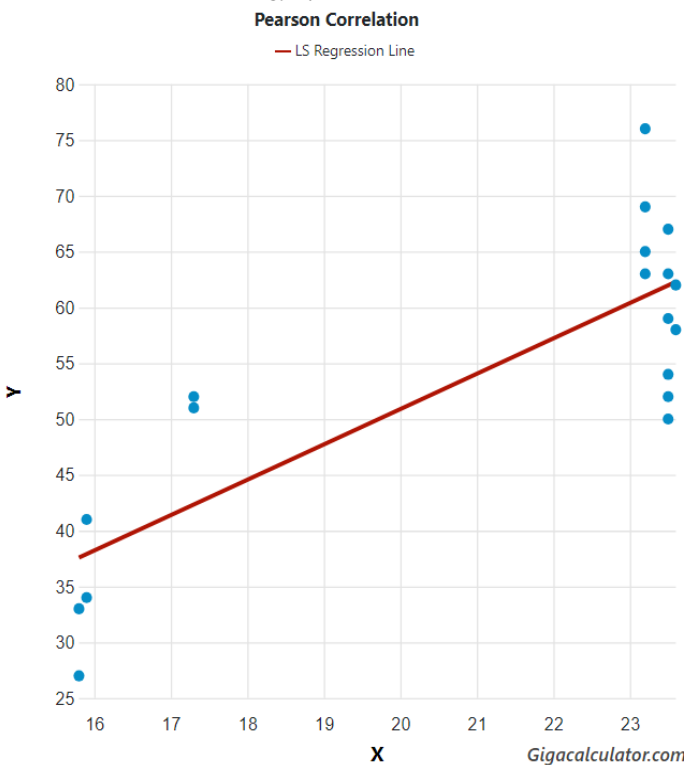
Mean ocean water temperature was related to male length (Fig. 14:  $r=0.85976914$ ,  $Z$  score= $3.16586450$ ,  $n=9$ ,  $p=0.00077318$ ). Mean ocean water temperature was related to female length (Fig. 15:  $r=0.80476139$ ,  $Z$  score= $2.72378508$ ,  $n=9$ ,  $p=0.00322698$ ). Combined male and female length correlated with mean ocean water temperature (Fig. 16:  $r=0.82018070$ ,  $Z$  score= $4.48247198$ ,  $n=18$ ,  $p=0.00000369$ ).



**Fig. 14. Correlation between mean ocean water temperature and male length in *Centrobolus Cook*, 1897.**

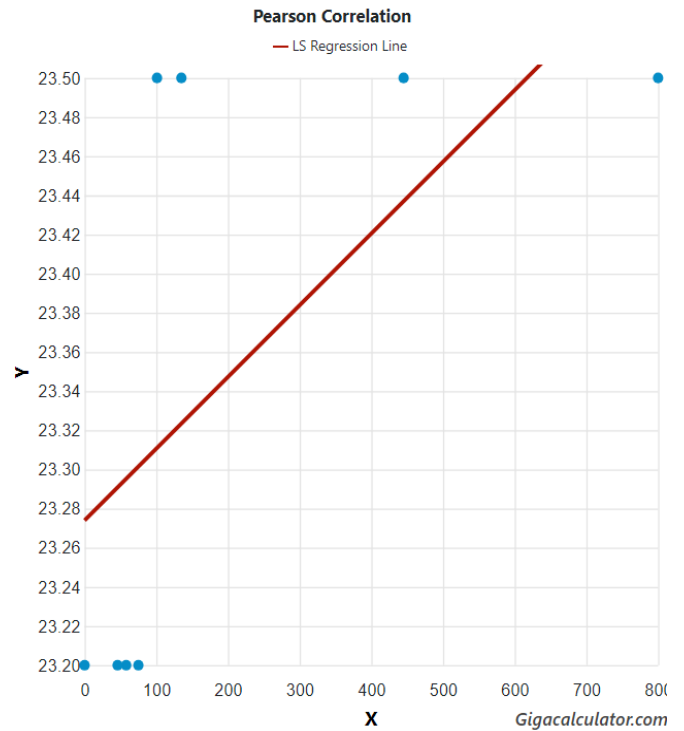


**Fig. 15. Correlation between mean ocean water temperature and female length in *Centrobolus Cook*, 1897.**



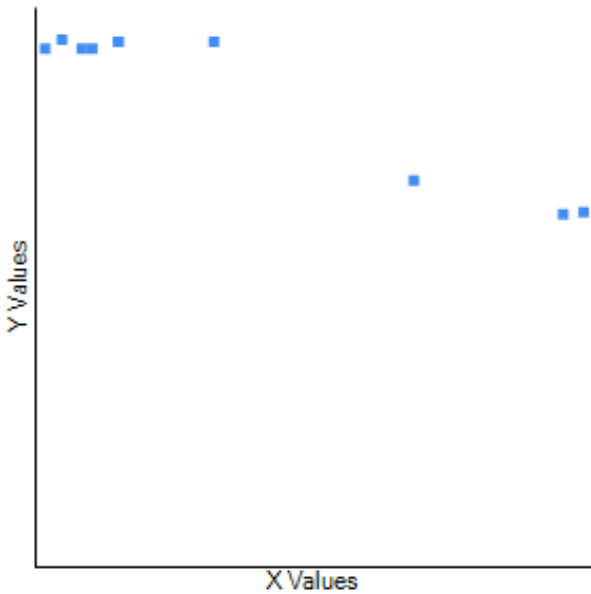
**Fig. 16. Correlation between mean ocean water temperature and male and female length in *Centrobolus Cook*, 1897.**

Mean ocean water temperature was related to abundances (Fig. 17:  $r=0.63046242$ , Z score= $1.65957221$ ,  $n=8$ ,  $p=0.04850025$ ).



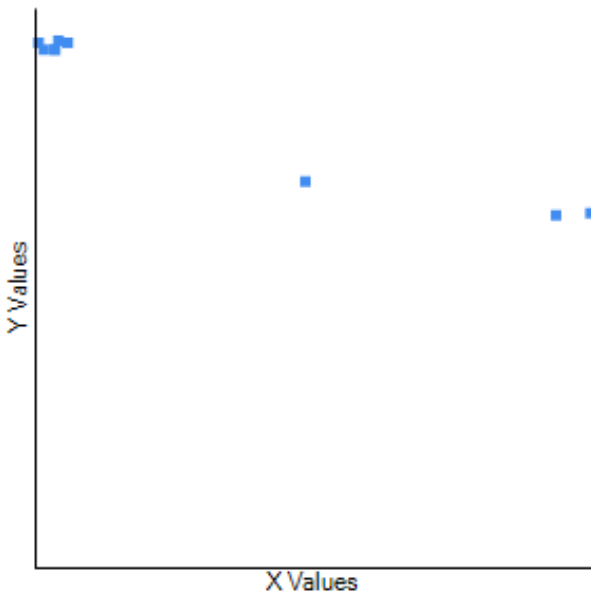
**Fig. 17. Correlation between mean ocean water temperature and abundances in *Centrobolus Cook*, 1897.**

Mean ocean water temperature was related to lowest duration of sunshine (Fig. 18:  $r=-0.9671$ ,  $r^2=0.9353$ ,  $n=9$ ,  $p=0.000021$ ).



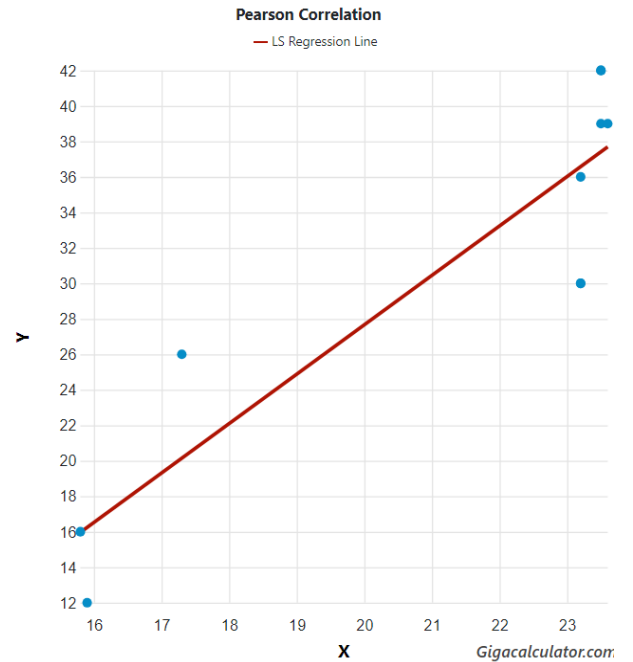
**Fig. 18. Correlation between mean ocean water temperature and lowest duration of sunshine in *Centrobolus* Cook, 1897.**

Mean ocean water temperature was related to highest duration of sunshine (Fig. 19:  $r=-0.9721$ ,  $r^2=0.945$ ,  $n=9$ ,  $p=0.000012$ ).



**Fig. 19. Correlation between mean ocean water temperature and highest duration of sunshine in *Centrobolus* Cook, 1897.**

The mean ocean water temperature was correlated with minimum precipitation (Fig. 20:  $r=0.90328257$ ,  $Z$  score= $3.94156315$ ,  $n=10$ ,  $p=0.00004049$ ).



**Fig. 20. Correlation between the mean ocean water temperature (X) and minimum precipitation (Y) across the range of *Centrobolus* Cook, 1897.**

#### IV. DISCUSSION

There is a correlation between mean ocean water temperature and sixteen factors in *Centrobolus*.

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**APPENDIX 1.** Mean ocean water temperature (degrees Celsius) followed by temperature (degrees Celsius) across the range of *Centrobolus* Cook, 1897.  
23.20, 20.4  
15.90, 16.4  
17.30, 16.9

23.50, 21.9  
23.50, 19.5  
23.20, 20.9  
15.80, 16.7  
23.50, 16.4  
23.60, 19.5  
23.20, 19.7

**APPENDIX 2.** The hours of sunshine throughout the year (h) preceded by mean ocean water temperature (degrees Celsius) in *Centrobolus* Cook, 1897.

23.20, 2709.47  
15.90, 3145.74  
17.30, 2846.04  
23.50, 2815.76  
23.50, 2699.92  
23.20, 2709.47  
15.80, 3087.04  
23.50, 2815.76  
23.60, 2654.59  
23.20, 2564.32

**APPENDIX 3.** Highest daily hours of sunshine throughout a month (h) preceded by mean ocean water temperature (degrees Celsius) across the range of *Centrobolus* Cook, 1897.

23.20, 248.89  
15.90, 342.21  
17.30, 293.68  
23.50, 209.20  
23.50, 250.86  
23.20, 248.89  
15.80, 336.32  
23.50, 209.20  
23.60, 251.38  
23.20, 188.32

**APPENDIX 4.** Mean ocean temperature (degrees Celsius) followed by month with the highest number of rainy days in *Centrobolus* Cook, 1897.

23.20, 13.73  
15.90, 10.50  
17.30, 10.40  
23.50, 13.97

23.50, 15.23  
23.20, 13.73  
15.80, 10.07  
23.50, 13.97  
23.60, 14.26  
23.20, 16.97

**APPENDIX 5.** Mean ocean temperature (degrees Celsius) followed by surface area (mm<sup>2</sup>) in *Centrobolus* Cook, 1897.

23.20, 2462.87  
15.90, 1130.97  
17.30, 1790.71  
23.50, 1934.22  
23.50, 2717.29  
23.20, 1258.21  
15.80, 827.87  
23.50, 2098.58  
23.60, 1972.92  
23.20, 2676.64  
23.20, 3026.01  
15.90, 1061.61  
17.30, 2109.33  
23.50, 2512.27  
23.50, 2934.19  
23.20, 1574.82  
15.80, 628.26  
23.50, 1917.94  
23.60, 2621.60  
23.20, 3668.38

**APPENDIX 6.** Mean ocean temperature (degrees Celsius) followed by maximum temperature (degrees Celsius) in *Centrobolus* Cook, 1897.

23.20, 25.4  
15.90, 15.7  
17.30, 16.6  
23.50, 25.5  
23.50, 25.0  
23.20, 24.3  
15.80, 15.7  
23.50, 25.5  
23.60, 24.6  
23.20, 24.2

**APPENDIX 7.** Mean ocean temperature (degrees Celsius) followed by minimum temperature (degrees Celsius) in *Centrobolus* Cook, 1897.

23.20, 19.9  
15.90, 11.4  
17.30, 11.5  
23.50, 19.8  
23.50, 18.7  
23.20, 17.3  
15.80, 11.4  
23.50, 19.8  
23.60, 19.7  
23.20, 19.0

**APPENDIX 8.** Mean ocean water temperature (degrees Celsius) followed by lowest hours of sunshine in a day (h) across the range of *Centrobolus* Cook, 1897.

23.20, 6.73  
15.90, 11.04  
17.30, 9.47  
23.50, 6.97  
23.50, 6.63  
23.20, 6.73  
15.80, 10.85  
23.50, 6.97  
23.60, 6.44  
23.20, 6.07

**APPENDIX 9.** Mean ocean temperature (degrees Celsius) preceded by mating frequencies in two coastal *Centrobolus* Cook, 1897.

0, 23.20  
0, 23.20  
0.0165, 23.20  
0.0135, 23.20  
0.0093, 23.20  
0.0057, 23.20  
0.00855, 23.20  
0.00645, 23.20  
0.066, 23.50  
0.054, 23.50  
0.0744, 23.50  
0.0456, 23.50  
0.072, 23.50  
0.048, 23.50

0.0396, 23.50  
0.0804, 23.50

**APPENDIX 10.** Mean ocean temperature (degrees Celsius) followed by precipitation (mm) in *Centrobolus* Cook, 1897.

23.20, 893  
15.90, 498  
17.30, 408  
23.50, 944  
23.50, 1015  
23.20, 893  
15.80, 621  
23.50, 944  
23.60, 945  
23.20, 1089

**APPENDIX 11.** Mean ocean temperature (degrees Celsius) followed by volume (mm<sup>3</sup>) in *Centrobolus* Cook, 1897.

23.20, 1894  
15.90, 522  
17.30, 1210  
23.50, 1518  
23.50, 2043  
15.80, 284  
23.50, 1221  
23.60, 1451  
23.20, 2683

**APPENDIX 12.** Mean ocean temperature (degrees Celsius) followed by male width (mm) in coastal *Centrobolus* Cook, 1897.

23.20, 5.3  
15.90, 4.0  
17.30, 5.0  
23.50, 5.2  
23.50, 5.9  
15.80, 3.6  
23.50, 5.2  
23.60, 5.0  
23.20, 6.0

**APPENDIX 13.** Mean ocean temperature (degrees Celsius) followed by female width (mm) in coastal *Centrobolus* Cook, 1897.

23.20, 5.9  
15.90, 4.4  
17.30, 6.8

23.50, 6.7  
23.50, 3.3  
15.80, 3.3  
23.50, 5.5  
23.60, 6.1  
23.20, 8.2

**APPENDIX 14.** Mean ocean temperature (degrees Celsius) followed by male length (mm) in coastal *Centrobolus* Cook, 1897.

23.20, 69  
15.90, 41  
17.30, 52  
23.50, 54  
23.50, 67  
15.80, 33  
23.50, 59  
23.60, 58  
23.20, 65

**APPENDIX 15.** Minimum ocean temperature (degrees Celsius) followed by female length (mm) in coastal *Centrobolus* Cook, 1897.

23.20, 76  
15.90, 34  
17.30, 51  
23.50, 52  
23.50, 63  
15.80, 27  
23.50, 50  
23.60, 62  
23.20, 63

**APPENDIX 16.** Mean ocean temperature (degrees Celsius) preceded by abundances in two coastal *Centrobolus* Cook, 1897.

0, 23.2  
58, 23.2  
75, 23.2  
46, 23.2  
445, 23.5  
101, 23.5  
135, 23.5  
800, 23.5

**APPENDIX 17.** Mean ocean temperature (degrees Celsius) in *Centrobolus* Cook, 1897.

23.20  
15.90  
17.30



23.50	precipitation (mm) across the range of
23.50	<i>Centrobolus</i> Cook, 1897.
23.20	23.20, 30
15.80	15.90, 12
23.50	17.30, 26
23.60	23.50, 42
23.20	23.50, 39
<b>APPENDIX 18.</b> Lowest duration of sunshine in	23.20, 30
a month (h) in nine species of <i>Centrobolus</i> .	15.80, 16
201.76	23.50, 42
342.21	23.60, 39
293.68	23.20, 36
209.2	
198.79	
336.32	
209.2	
193.09	
188.32	

**APPENDIX 19.** Mean ocean temperature (degrees Celsius) in *Centrobolus* Cook, 1897.

23.20
15.90
17.30
23.50
23.50
23.20
15.80
23.50
23.60
23.20

**APPENDIX 20.** Highest duration of sunshine in a day (h) in nine species of *Centrobolus*.

8.03
11.04
9.47
8.16
8.00
8.09
10.85
8.16
8.11
8.09

**APPENDIX 21.** Mean ocean water temperature (degrees Celsius) followed by minimum