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

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***Abstract*- Minimum ocean water temperature was tested for a correlation with fifteen factors in red millipedes *Centrobolus*. Minimum ocean water temperature was related to male length (r=0.85096999, Z score=3.08552107, n=9, p=0.00101605). Minimum ocean water temperature was related to female length (r=0.79541814, Z score=2.66017650, n=9, p=0.00390503). Combined male and female length correlated with minimum ocean water temperature (r=0.81117395, Z score=4.37822233, n=18, p=0.00000599). Minimum ocean water temperature was marginally related to female width (r=-0.51245978, Z score=-1.38655792, n=9, p=0.08278836). Combined male and female width was not correlated with minimum ocean water temperature (r=-0.28289526, Z score=-1.12636582, n=18, p=0.13000540). Minimum ocean water temperature was related to volume (r=0.770339, Z score=2.50132345, n=9, p=0.00618652). Minimum ocean water temperature was related to precipitation (r=0.92942823, Z score=4.05188315, n=9, p=0.00002542). Minimum ocean water temperature was related to highest relative humidity (r=-0.63845198, Z score=-1.85072703, n=9, p=0.03210436). Lowest number of daily hours of sunshine was related to minimum ocean water temperature (r=-0.97723073, Z score=-5.46731092, n=9, p=0.00000002). Minimum ocean water temperature was related to minimum temperature (r=0.99186007, Z score=6.73614916, n=9, p=0). Minimum ocean water temperature was related to maximum temperature (r=0.99458129, Z score=7.23619985, n=9, p=0). Minimum ocean water temperature was related to surface area (r=0.78302418, Z score=4.07879420, n=18, p=0.00002265). Minimum ocean water temperature was related to the month with the highest number of rainy days (r=0.90531504, Z score=3.67649734, n=9, p=0.00011826). Hours of sunshine throughout the year was correlated with minimum ocean water temperature (r=-0.84222549, Z score=-3.00988739, n=9, p=0.00130679). Highest number of daily hours of sunshine was tested for a correlation with minimum ocean water temperature (r=-0.89339484, Z score=-3.52358458, n=9, p=0.00021292). The minimum ocean water temperature was correlated with temperature (r= 0.73472497, Z score=2.48414491, n=10, p=0.00649316). Minimum ocean water temperature was related to mating frequencies (r=0.92554221, Z score=5.86394325, n=16, p=0). Minimum ocean water temperature was related to abundances (r=0.63046242, Z score=1.65957221, n=8, p=0.04850025). Minimum ocean water temperature was related to distance to the nearest airport (Spearman's r=0.68674699, Z score=1.828214, n=8, p=0.03375866). Minimum ocean water temperature was related to highest duration of sunshine (r=-0.9592, r^2=0.9201, n=9, p=0.000043). Minimum ocean water temperature was related to lowest duration of sunshine (r=0.9834, r^2=0.9671, n=9, p<0.00001). Minimum ocean water temperature was related to the month with the lowest number of rainy days (r=0.63447460, Z score=1.83435052, n=9, p=0.03330093).**

Keywords: **distance, nearest, Red Millipedes**

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 [1-430]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [430]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [429]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, minimum ocean water temperature is correlated with sixteen factors 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 x π x Radius x Height. Correlations between minimum ocean water temperature and sixteen factors were generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1-17).

III. RESULTS

Minimum ocean water temperature was related to male length (Fig. 1: r=0.85096999, Z score=3.08552107, n=9, p=0.00101605).

Minimum ocean water temperature was related to female length (Fig. 2: r=0.79541814, Z score=2.66017650, n=9, p=0.00390503). Combined male and female length correlated with minimum ocean water temperature (Fig. 3: r=0.81117395, Z score=4.37822233, n=18, p=0.00000599).

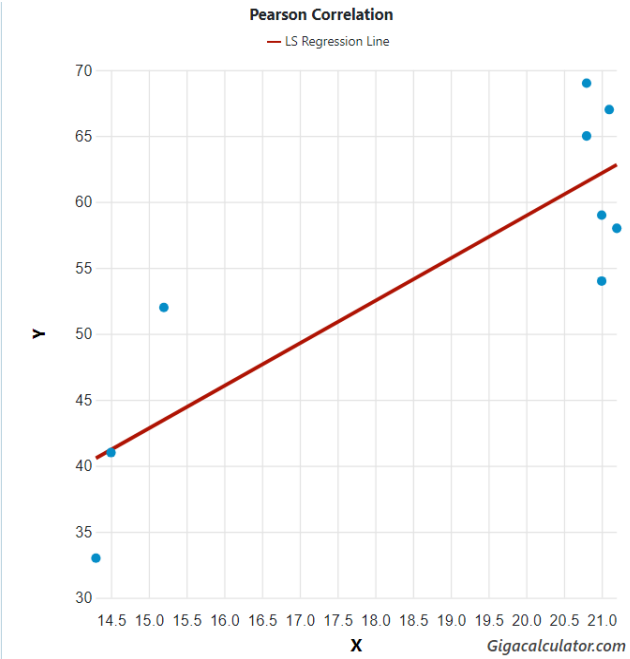

Fig. 1. Correlation between minimum ocean water temperature and male length in *Centrobolus* Cook, 1897.

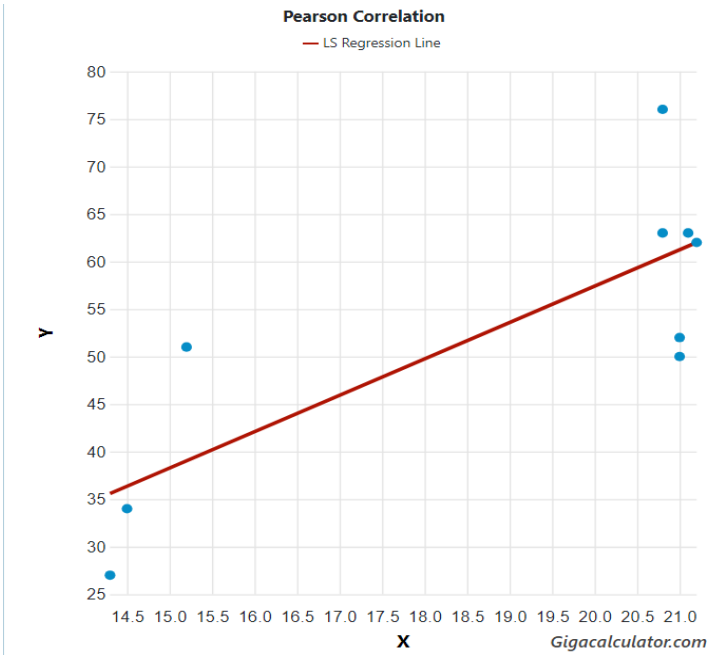

Fig. 2. Correlation between minimum ocean water temperature and female length in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to male width (Fig. 3: r=0.81007271, Z score=2.76116399, n=9, p=0.00287984). Minimum ocean water temperature was marginally related to female width (r=-0.51245978, Z score=-1.38655792, n=9, p=0.08278836). Combined male and female width was not correlated with minimum ocean water temperature (r=-0.28289526, Z score=-1.12636582, n=18, p=0.13000540).

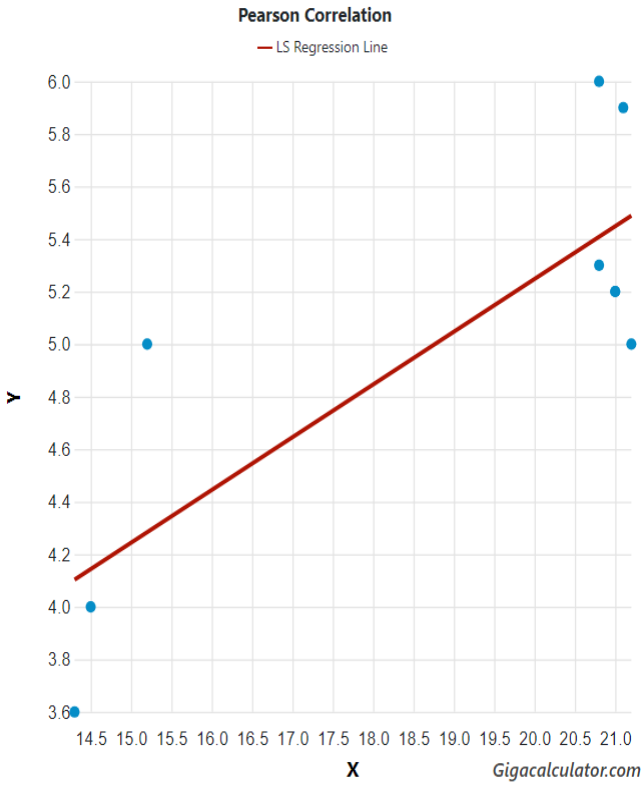

Fig. 3. Correlation between minimum ocean water temperature and male width in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to volume (Fig. 4: r=0.770339, Z score=2.50132345, n=9, p=0.00618652).

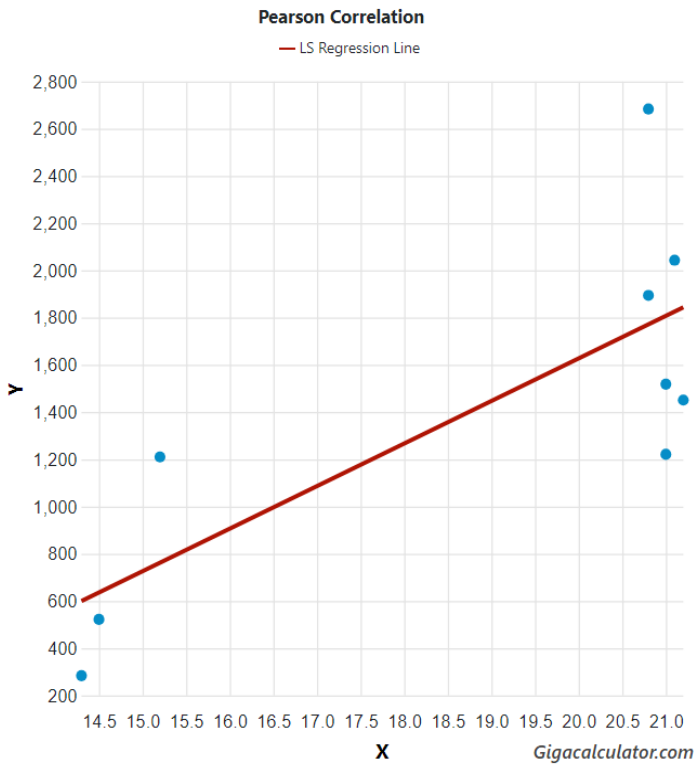

Fig. 4. Correlation between minimum ocen water temperature and volume in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to precipitation (Fig. 5: r=0.92942823, Z score=4.05188315, n=9, p=0.00002542).

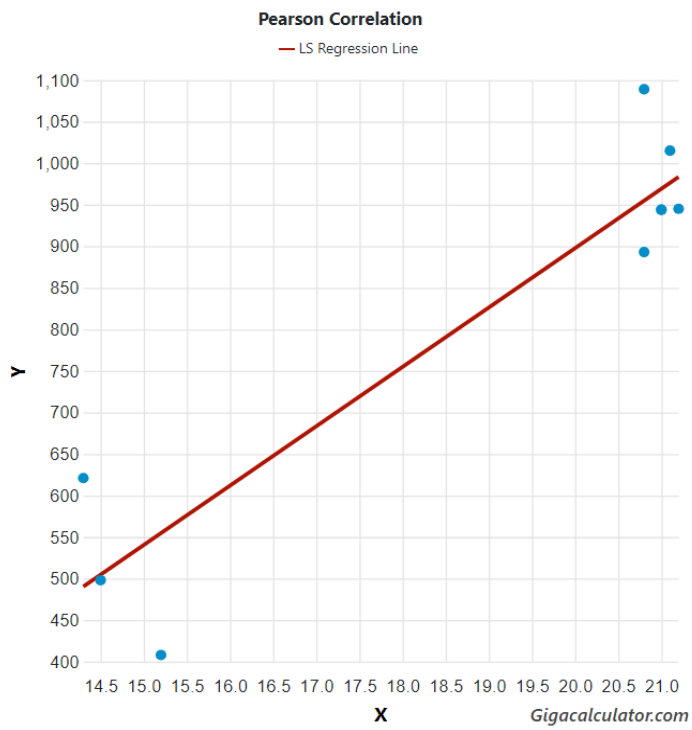

Fig. 5. Correlation between minimum ocean water temperature and precipitation in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to highest relative humidity (Fig. 6: r=-0.63845198, Z score=-1.85072703, n=9, p=0.03210436).

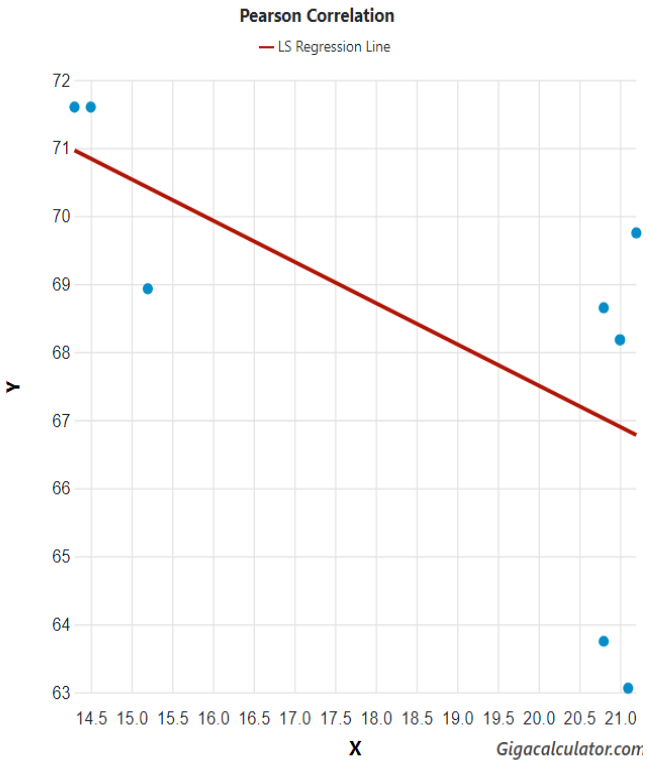

Fig. 6. Correlation between minimum ocean water temperature and highest relative humidity in *Centrobolus* Cook, 1897.

Lowest number of daily hours of sunshine was related to minimum ocean water temperature (Fig. 7: r=-0.97723073, Z score=-5.46731092, n=9, p=0.00000002).

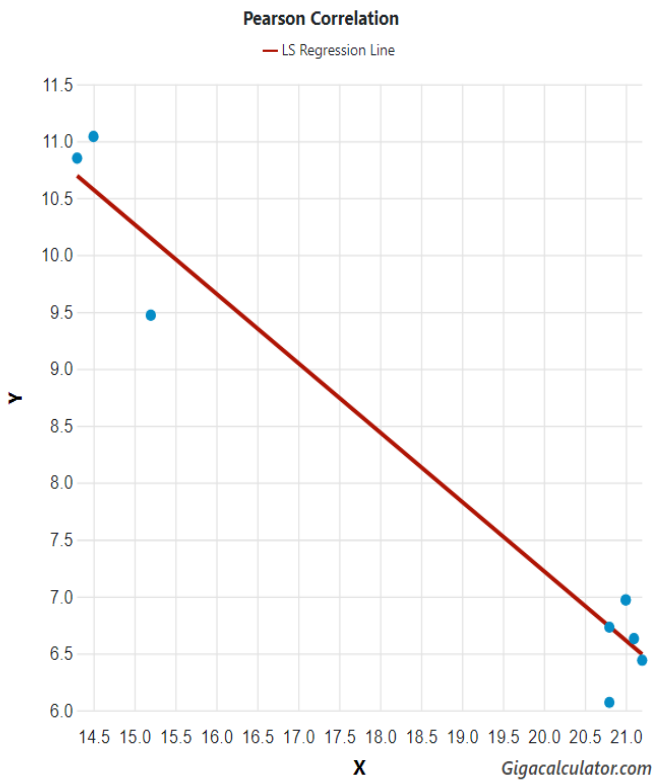

Fig. 7. Correlation between lowest number of daily hours of sunshine in a month (Y) and minimum ocean water temperature (X) across the range of *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to minimum temperature (Fig. 8: r=0.99186007, Z score=6.73614916, n=9, p=0).

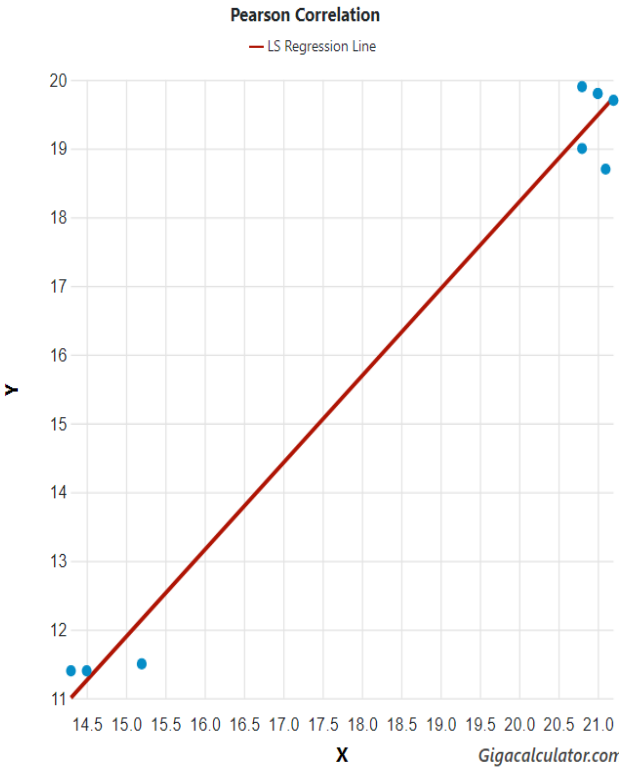

Fig. 8. Correlation between minimum ocean water temperature and minimum temperature variation in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to maximum temperature (Fig. 9: r=0.99458129, Z score=7.23619985, n=9, p=0).

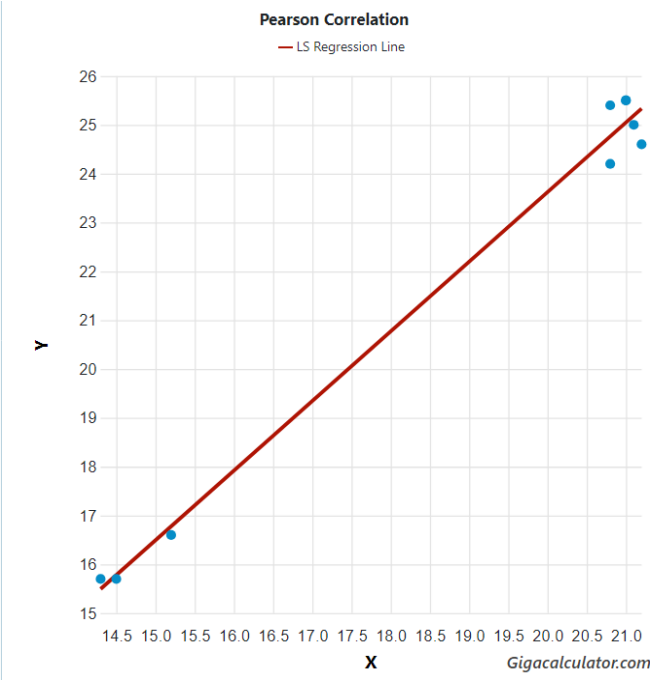

Fig. 9. Correlation between minimum ocean water temperature and maximum temperature variation in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to surface area (Fig. 10: r=0.78302418, Z score=4.07879420, n=18, p=0.00002265).

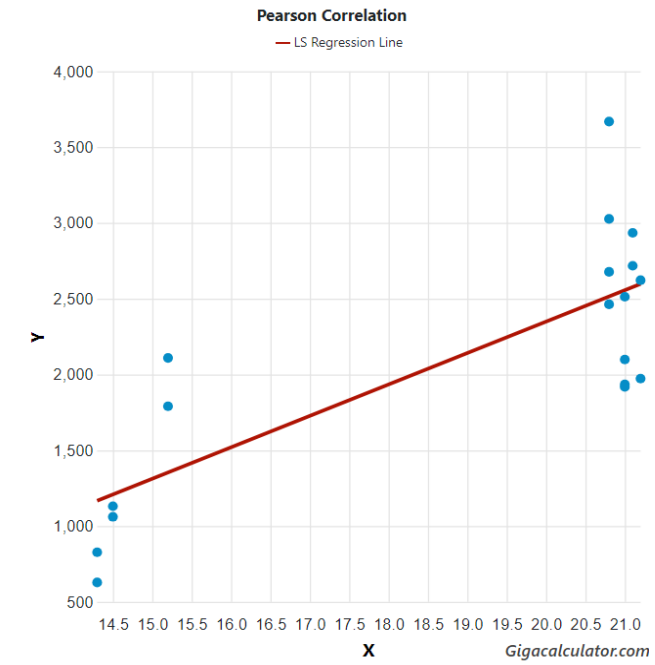

Fig. 10. Correlation between minimum ocean water temperature and surface area in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to the month with the highest number of rainy days (Fig. 11: r=0.90531504, Z score=3.67649734, n=9, p=0.00011826).

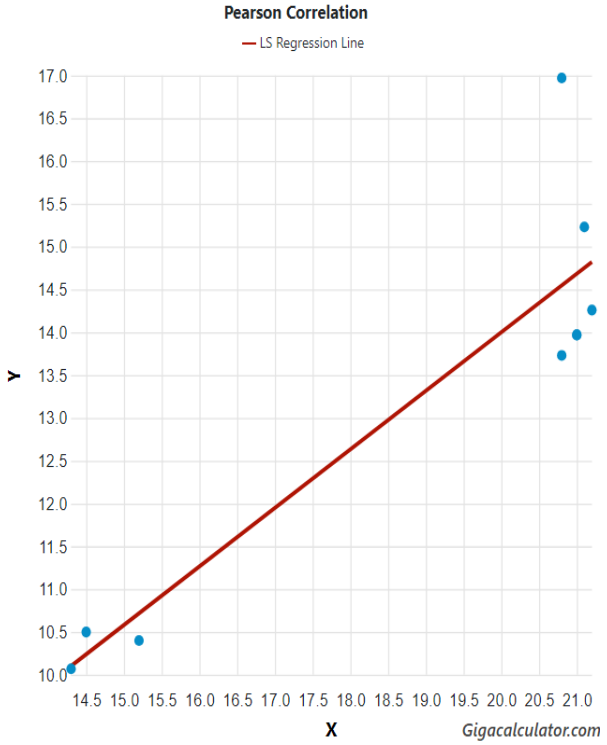

Fig. 11. Correlation between minimum ocean water temperature and month with the highest number of rainy days in *Centrobolus* Cook, 1897.

Hours of sunshine throughout the year was correlated with minimum ocean water temperature (Fig. 12: r=-0.84222549, Z score=-3.00988739, n=9, p=0.00130679).

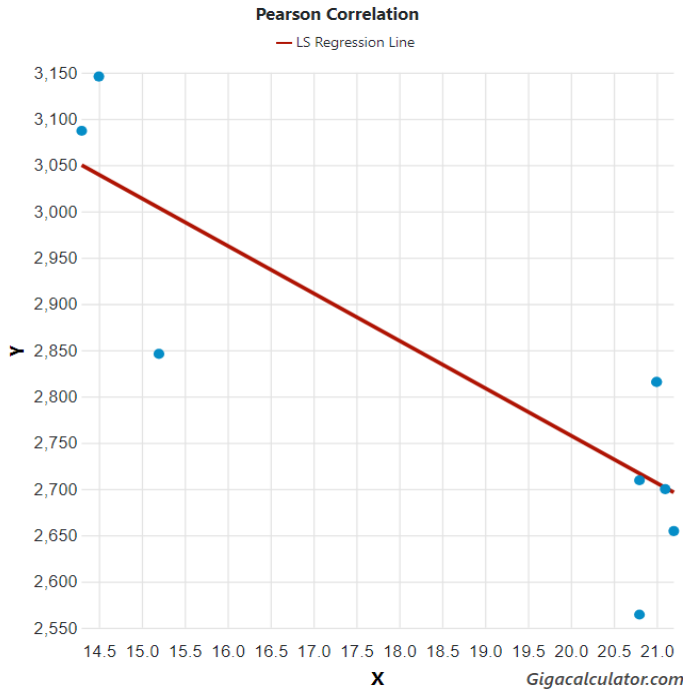

Fig. 12. Correlation between Hours of sunshine throughout the year (y) and minimum ocean water temperature (x) across therange of *Centrobolus* Cook, 1897.

Highest number of daily hours of sunshine was tested for a correlation with minimum ocean water temperature (Fig. 13: r=-0.89339484, Z score=-3.52358458, n=9, p=0.00021292).

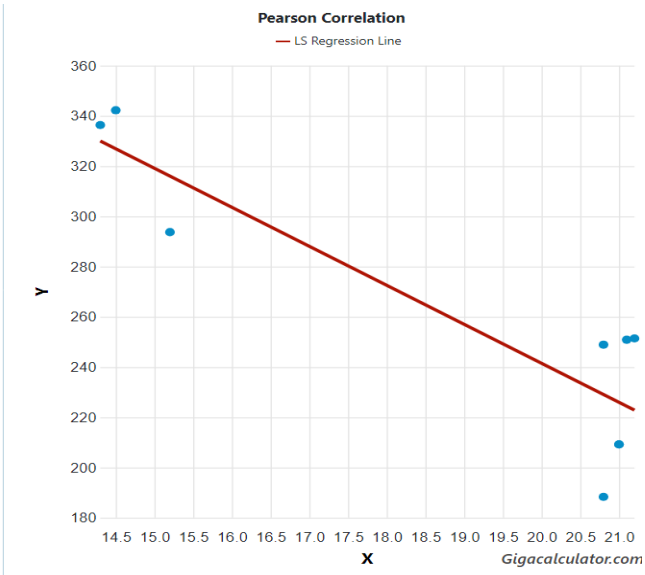

Fig. 13. Correlation between highest number of daily hours of sunshine in a month (y) and minimum ocean water temperature (x) across therange of *Centrobolus* Cook, 1897.

The minimum ocean water temperature was correlated with temperature (Fig. 14: r= 0.73472497, Z score=2.48414491, n=10, p=0.00649316).

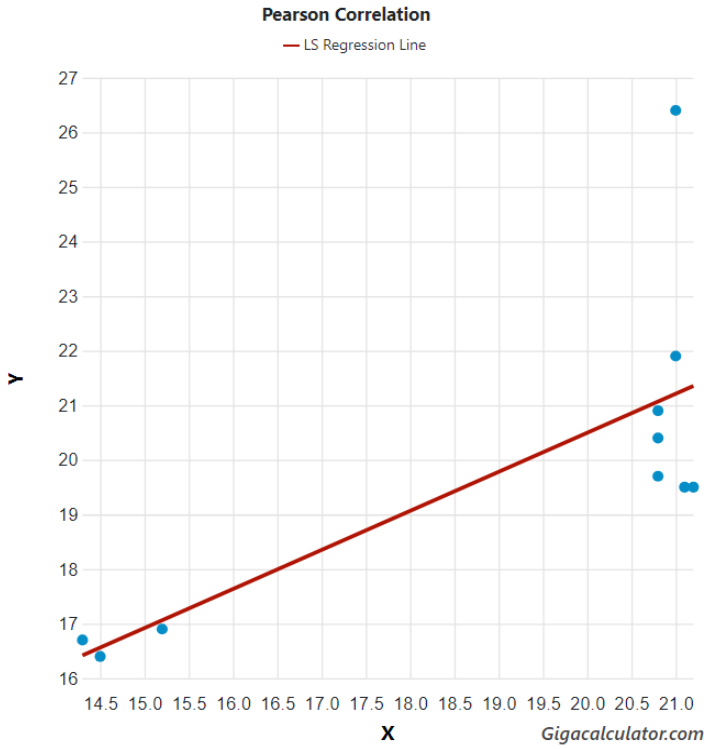

Fig. 14. Correlation between the minimum ocean water temperature (X) and average temperature (Y) across therange of *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to mating frequencies (Fig. 15: r=0.92554221, Z score=5.86394325, n=16, p=0).

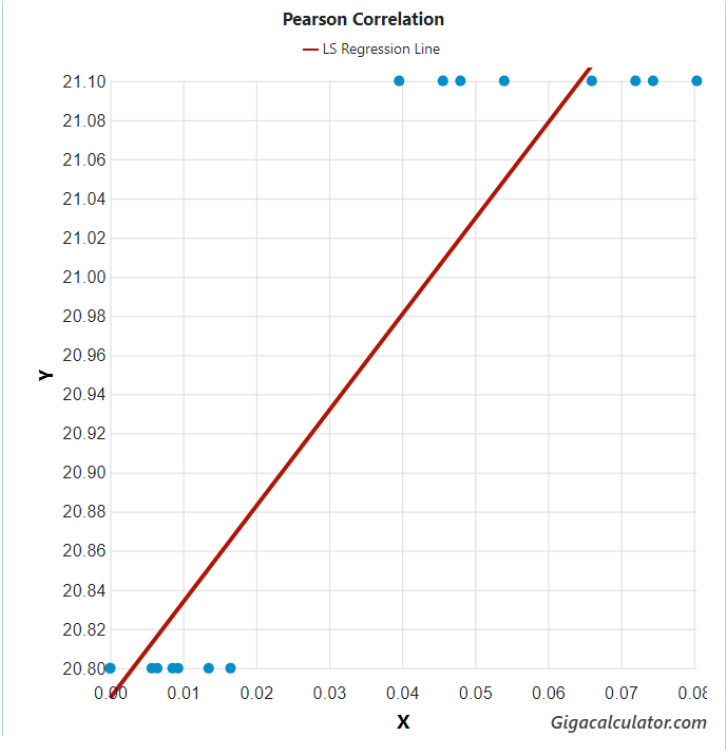

Fig. 15. Correlation between minimum ocean water temperature and mating frequencies in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to abundances (Fig. 16: r=0.63046242, Z score=1.65957221, n=8, p=0.04850025).

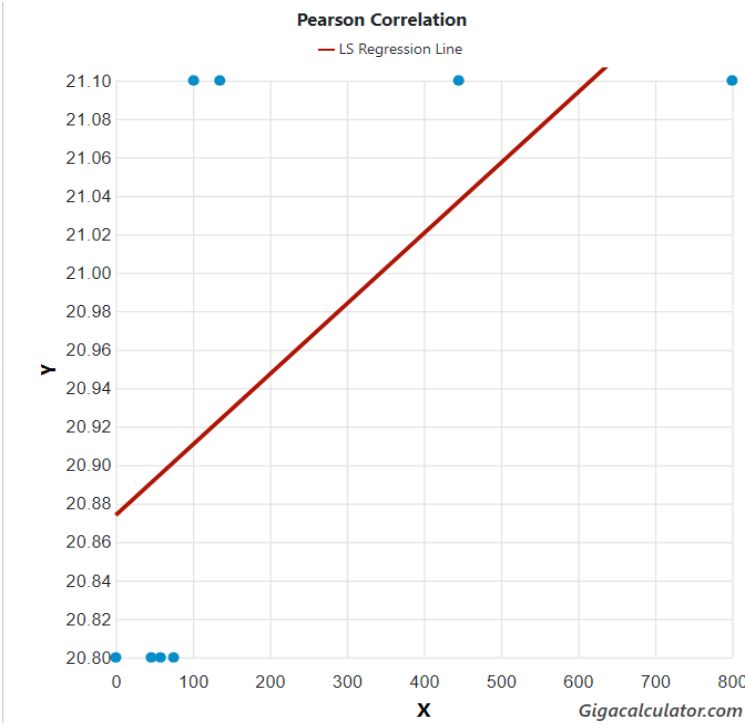

Fig. 16. Correlation between minimum ocean water temperature and abundances in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to distance to the nearest airport (Fig. 17: Spearman's r=0.68674699, Z score=1.828214, n=8, p=0.03375866).

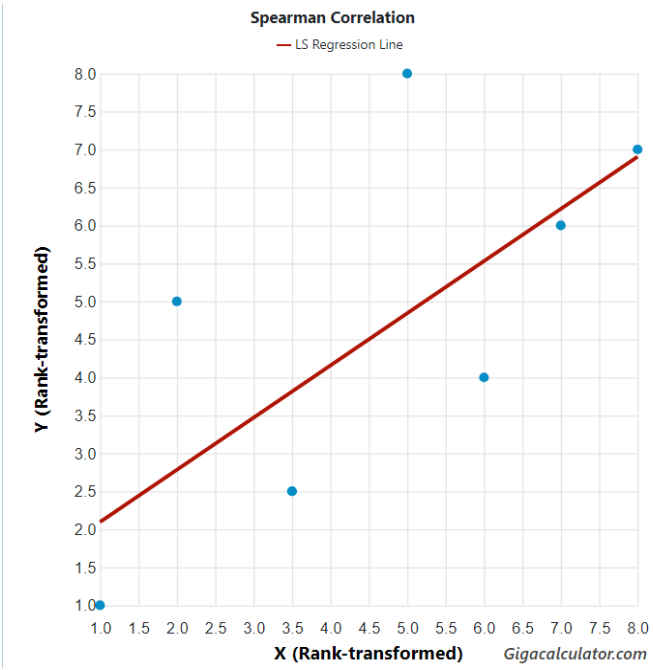

Fig. 17. Correlation between minimum ocean water temperature and distance to the nearest airport in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to highest duration of sunshine (Fig. 18: r=-0.9592, r^2=0.9201, n=9, p=0.000043).

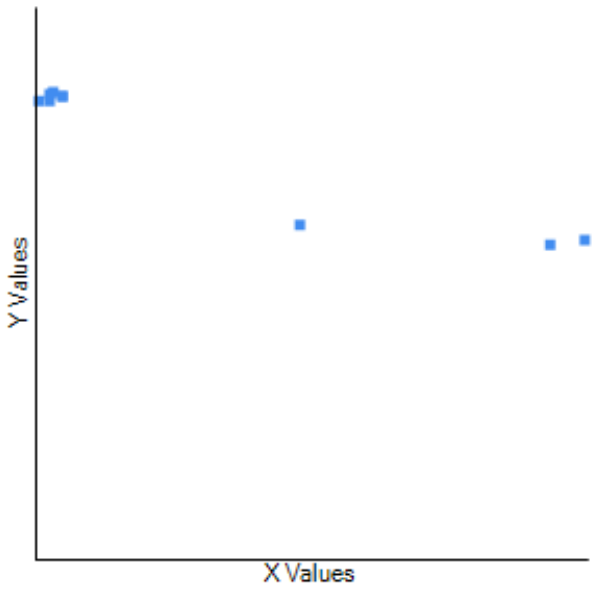

Fig. 18. Correlation between minimum ocean water temperature and highest duration of sunshine in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to lowest duration of sunshine (Fig. 19: r=0.9834, r^2=0.9671, n=9, p<0.00001).

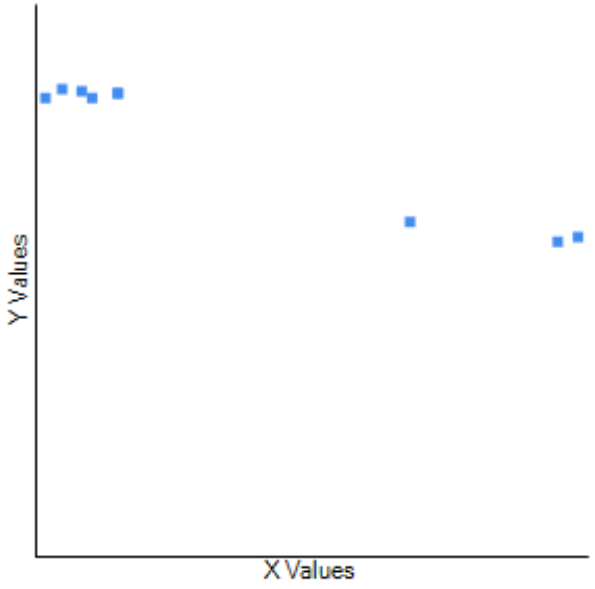

Fig. 19. Correlation between minimum ocean water temperature and lowest duration of sunshine in *Centrobolus* Cook, 1897.

Minimum ocean water temperature was related to the month with the lowest number of rainy

days (Fig. 20: r=0.63447460, Z score=1.83435052, n=9, p=0.03330093).

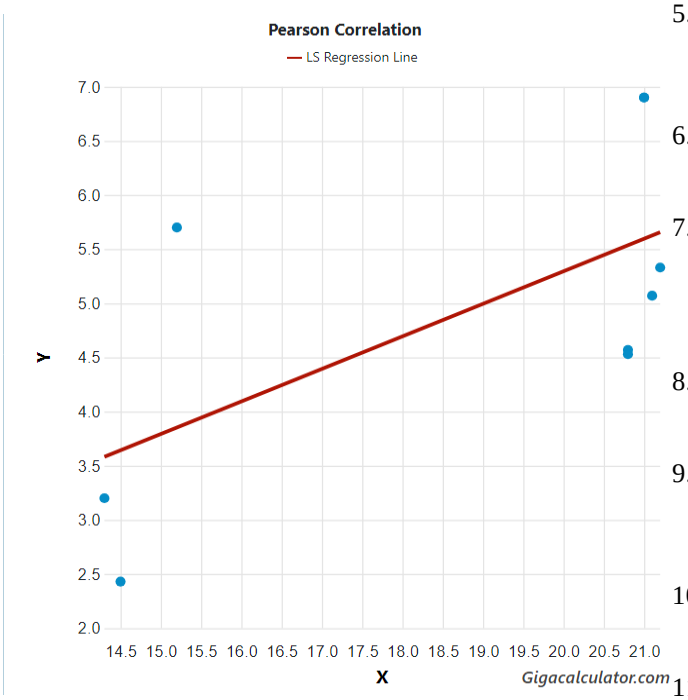

Fig. 20. Correlation between minimum ocean water temperature and the month with the lowest number of rainy days in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between minimum ocean water temperature and seventeen factors in *Centrobolus*.

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APPENDIX 1. Minimum ocean temperature (degrees Celsius) followed by male length (mm) in coastal *Centrobolus* Cook, 1897.
20.80, 69
14.50, 41
15.20, 52
21.00, 54
21.10, 67
14.30, 33
21.00, 59
21.20, 58
20.80, 65

APPENDIX 2. Minimum ocean temperature (degrees Celsius) followed by female length (mm) in coastal *Centrobolus* Cook, 1897.
20.80, 76
14.50, 34
15.20, 51
21.00, 52
21.10, 63
14.30, 27
21.00, 50
21.20, 62
20.80, 63

APPENDIX 2. Minimum ocean temperature (degrees Celsius) followed by male width (mm) in coastal *Centrobolus* Cook, 1897.
20.80, 5.3
14.50, 4.0
15.20, 5.0
21.00, 5.2
21.10, 5.9
14.30, 3.6
21.00, 5.2
21.20, 5.0
20.80, 6.0

APPENDIX 3. Minimum ocean temperature (degrees Celsius) followed by female width (mm) in coastal *Centrobolus* Cook, 1897.
20.80, 5.9
14.50, 4.4
15.20, 6.8
21.00, 6.7
21.10, 3.3
14.30, 27
21.00, 5.5
21.20, 6.1
20.80, 8.2

APPENDIX 4. Minimum ocean temperature (degrees Celsius) followed by volume (mm^3) in *Centrobolus* Cook, 1897.
20.80, 1894
14.50, 522
15.20, 1210
21.00, 1518
21.10, 2043
14.30, 284
21.00, 1221
21.20, 1451
20.80, 2683

APPENDIX 5. Minimum ocean temperature (degrees Celsius) followed by precipitation (mm) in *Centrobolus* Cook, 1897.
20.80, 893
14.50, 498
15.20, 408
21.00, 944
21.10, 1015
14.30, 621
21.00, 944
21.20, 945
20.80, 1089

APPENDIX 6. Minimum ocean temperature (degrees Celsius) followed by highest relative humidity (%) in coastal *Centrobolus* Cook, 1897.
20.80, 68.65
14.50, 71.60
15.20, 68.93
21.00, 68.18
21.10, 63.06

14.30, 71.60
21.00, 68.18
21.20, 69.75
20.80, 63.75

APPENDIX 7. Minimum ocean water temperature (degrees Celsius) followed by lowest hours of sunshine in a day (h) across the range of *Centrobolus* Cook, 1897.
20.80, 6.73
14.50, 11.04
15.20, 9.47
21.00, 6.97
21.10, 6.63
14.30, 10.85
21.00, 6.97
21.20, 6.44
20.80, 6.07

APPENDIX 8. Minimum ocean temperature (degrees Celsius) followed by minimum temperature (degrees Celsius) in *Centrobolus* Cook, 1897.
20.80, 19.9
14.50, 11.4
15.20, 11.5
21.00, 19.8
21.10, 18.7
14.30, 11.4
21.00, 19.8
21.20, 19.7
20.80, 19.0

APPENDIX 9. Minimum ocean temperature (degrees Celsius) followed by maximum temperature (degrees Celsius) in *Centrobolus* Cook, 1897.
20.80, 25.4
14.50, 15.7
15.20, 16.6
21.00, 25.5
21.10, 25.0
14.30, 15.7
21.00, 25.5
21.20, 24.6
20.80, 24.2

APPENDIX 10. Minimum ocean temperature (degrees Celsius) followed by surface area (mm^2) in *Centrobolus* Cook, 1897.
20.80, 2462.87
14.50, 1130.97
15.20, 1790.71
21.00, 1934.22
21.10, 2717.29
14.30, 827.87
21.00, 2098.58
21.20, 1972.92
20.80, 2676.64
20.80, 3026.01
14.50, 1061.61
15.20, 2109.33
21.00, 2512.27
21.10, 2934.19
14.30, 628.26
21.00, 1917.94
21.20, 2621.60
20.80, 3668.38

APPENDIX 11. Minimum ocean temperature (degrees Celsius) followed by month with the highest number of rainy days in *Centrobolus* Cook, 1897.
20.80, 13.73
14.50, 10.50
15.20, 10.40
21.00, 13.97
21.10, 15.23
14.30, 10.07
21.00, 13.97
21.20, 14.26
20.80, 16.97

APPENDIX 12. The hours of sunshine throughout the year (h) preceded by minimum ocean water temperature (degrees Celsius) in *Centrobolus* Cook, 1897.
20.80, 2709.47
14.50, 3145.74
15.20, 2846.04
21.00, 2815.76
21.10, 2699.92

14.30, 3087.04
21.00, 2815.76
21.20, 2654.59
20.80, 2564.32

APPENDIX 13. Highest daily hours of sunshine throughout a month (h) preceded by minimum ocean water temperature (degrees Celsius)across the range of *Centrobolus* Cook, 1897.
20.80, 248.89
14.50, 342.21
15.20, 293.68
21.00, 209.20
21.10, 250.86
14.30, 336.32
21.00, 209.20
21.20, 251.38
20.80, 188.32

APPENDIX 14. Minimum ocean water temperature (degrees Celsius) followed by temperature (degrees Celsius) across the range of *Centrobolus* Cook, 1897.
20.80, 20.4
14.50, 16.4
15.20, 16.9
21.00, 21.9
21.10, 19.5
20.80, 20.9
14.30, 16.7
21.00, 26.4
21.20, 19.5
20.80, 19.7

APPENDIX 15. Minimum ocean temperature (degrees Celsius) preceded by mating frequencies in two coastal *Centrobolus* Cook, 1897.
0, 20.80
0, 20.80
0.0165, 20.80
0.0135, 20.80
0.0093, 20.80
0.0057, 20.80
0.00855, 20.80
0.00645, 20.80
0.066, 21.10
0.054, 21.10
0.0744, 21.10
0.0456, 21.10
0.072, 21.10
0.048, 21.10
0.0396, 21.10
0.0804, 21.10

APPENDIX 16. Minimum ocean temperature (degrees Celsius) preceded by abundances in two coastal *Centrobolus* Cook, 1897.
0, 20.80
58, 20.80
75, 20.80
46, 20.80
445, 21.10
101, 21.10
135, 21.10
800, 21.10

APPENDIX 17. Minimum ocean temperature (degrees Celsius) followed by distance to the nearest airport (km) in coastal *Centrobolus* Cook, 1897.
20.80, 13.26
14.50, 23.68
15.20, 97.37
21.00, 130.49
21.10, 82.42
14.30, 17.12
21.00, 130.49
21.20, 140.84

APPENDIX 18. Highest duration of sunshine in a month (h) in nine species of *Centrobolus.*
8.03
11.04
9.47
8.16
8.09
10.85
8.16
8.11
8.09

APPENDIX 19. Lowest duration of sunshine in a month (h) in nine species of *Centrobolus.*
201.76
342.21

293.68
209.2
198.79
336.32
209.2
193.09
188.32

APPENDIX 20. Minimum ocean temperature (degrees Celsius) followed by the month with the lowest number of rainy days in coastal *Centrobolus* Cook, 1897.

20.80, 4.57
14.50, 2.43
15.20, 5.70
21.00, 6.90
21.10, 5.07
14.30, 3.20
21.00, 6.90
21.20, 5.33
20.80, 4.53