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HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897 IS RELATED TO FOURTEEN FACTORS

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Abstract- Highest ocean water temperature was tested for a correlation with 14 factors (average temperature, longitude, latitude, lowest number of daily hours of sunshine throughout a month, minimum temperature, maximum temperature, surface area, month with the highest number of rainy days, volume, precipitation, highest relative humidity, lowest relative humidity, length, and width) in red millipedes *Centrobolus*. Highest ocean water temperature was related to average temmperature (r=0.93596857, Z score=3.40898897, r^2=0.8761, n=7, p=0.00032607), to longitude (r=0.98998780, Z score=5.29207935, r^2=0.9801, n=7, p=0.00000006), to latitude (r=0.91047442, Z score=3.06058245, r^2=0.829, n=7, p=0.00110460), to lowest number of daily hours of sunshine (r= -0.63146459, Z score=-1.82204880, n=9, p=0.03422373), to minimum temperature (r=0.66674886, Z score1.97151325, n=9, p=0.02433253), to maximum temperature (r=0.70442272, Z score=2.14581602, n=9, p=0.01594377), to surface area (r=0.57630785, Z score=2.54422753, r^2=0.3321, n=18, p=0.00547601), to the month with the highest number of rainy days (r=0.61969885, Z score=1.77469459, n=9, p=0.03797412), to volume (r=0.62180682, Z score=1.78309504, n=9, p=0.03728537), to precipitation (r=0.68115886, Z score=2.03619423, r^2=0.484, n=9, p=0.02086536), to lowest relative humidity (r=-0.6825, r^2=0.4658, n=9, p=0.042583), to male length (r=0.62252089, Z score=1.78594881, n=9, p=0.03705372), marginally related to female length (r=0.51639874, Z score=1.39967864, n=9, p=0.08080484), combined male and female length (r=0.55554046, Z score=2.42588050, n=18, p=0.00763565), male width (r=0.66446087, Z score=1.96145090, n=9, p=0.02491315), to female width (r=0.52758067, Z score=1.43732811, n=9, p=0.07531244), combined male and female width (r=0.51618718, Z score=2.21196908, n=18, p=0.01348435).

Keywords: precipitation, Red Millipedes, sunshine.

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 [1-435]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [435]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [434]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, highest ocean water temperature is correlated with average temperature, longitude, latitude, lowest number of daily hours of sunshine throughout a month, minimum temperature, maximum temperature, surface area, month with the highest number of rainy days, volume, precipitation, highest relative humidity, lowest relative humidity, length, and width.

II. MATERIALS AND METHODS

Horizontal tergite width measurements for 7 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. A correlation between highest ocean water temperature and 14 factors were generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1-17).

III. RESULTS

Highest ocean water temperature was related to average temperature (Fig. 1: r=0.93596857, Z score=3.40898897, r^2=0.8761, n=7, p=0.00032607).

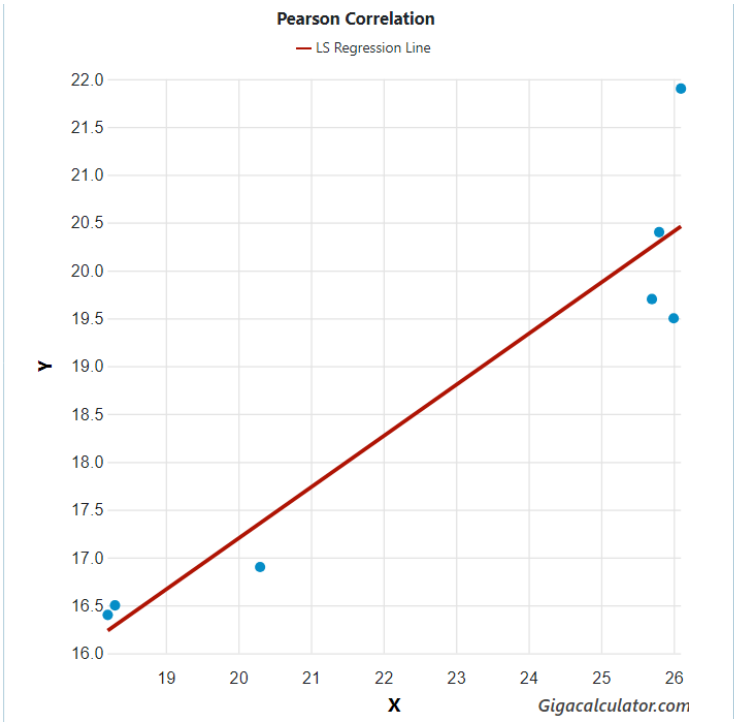

Fig. 1. Correlation between highest ocean water temperature and average temperature variation in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to longitude (Fig. 2: r=0.98998780, Z score=5.29207935, r^2=0.9801, n=7, p=0.00000006).

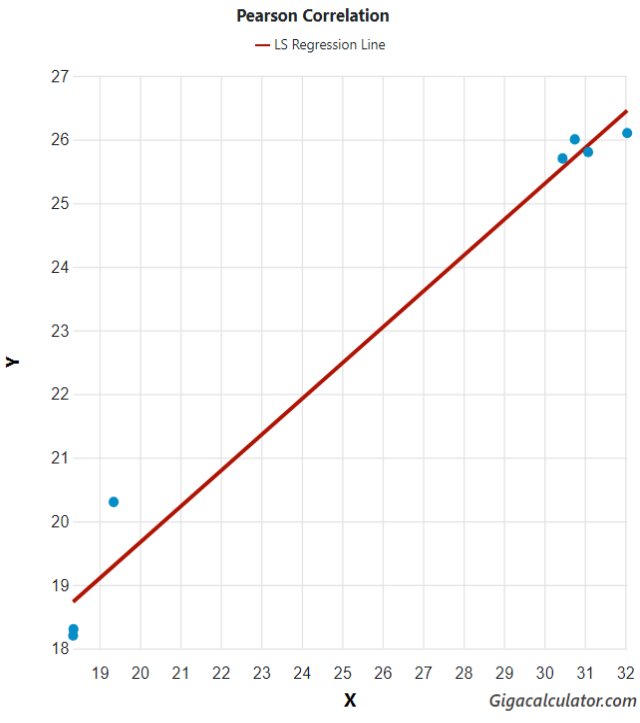

Fig. 2. Correlation between highest ocean water temperature and longitude in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to latitude (Fig. 3: r=0.91047442, Z score=3.06058245, r^2=0.829, n=7, p=0.00110460).

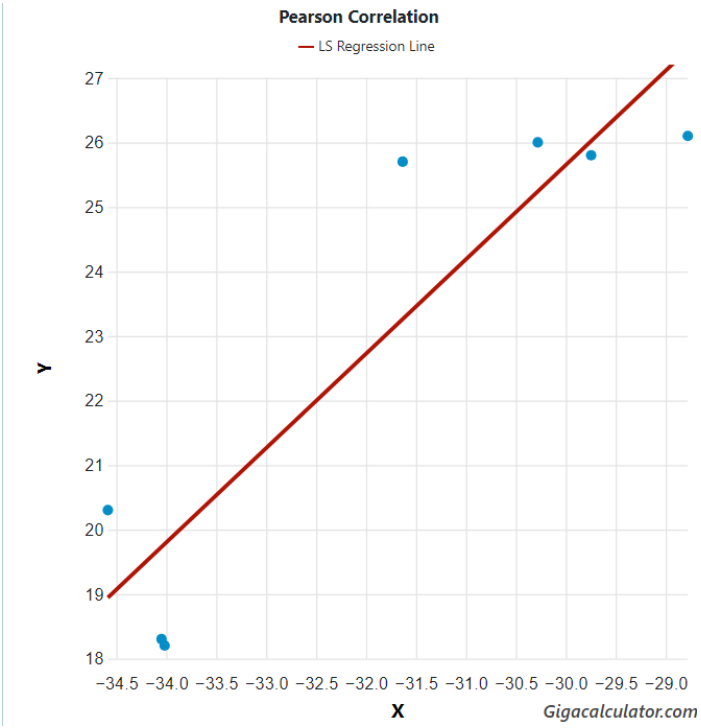

Fig. 3. Correlation between highest ocean water temperature and latitude in *Centrobolus* Cook, 1897.

Lowest number of daily hours of sunshine was related to highest ocean water temperature (Fig. 4: r=-0.63146459, Z score=-1.82204880, n=9, p=0.03422373).

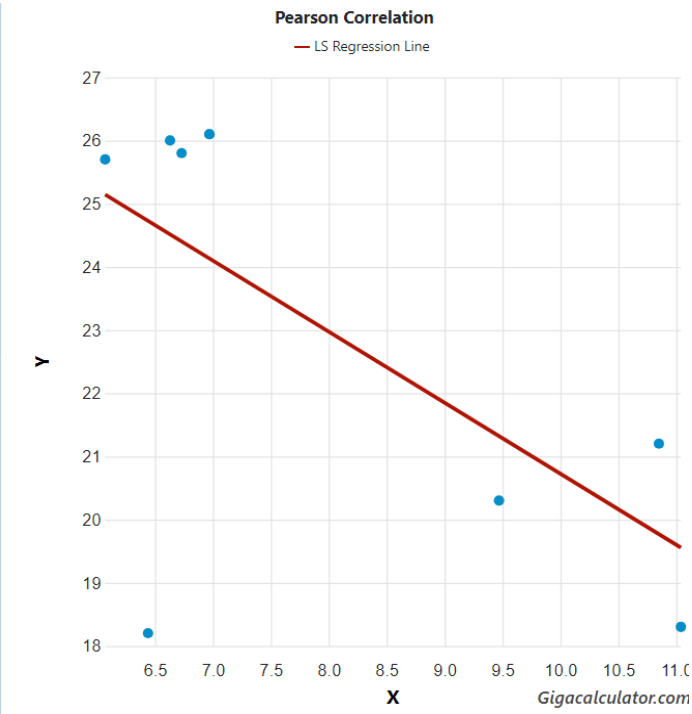

Fig. 4. Correlation between lowest number of daily hours of sunshine in a month (Y) and highest ocean water temperature (X) across the range of *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to minimum temperature (Fig. 5: r=0.66674886, Z score1.97151325, n=9, p=0.02433253).

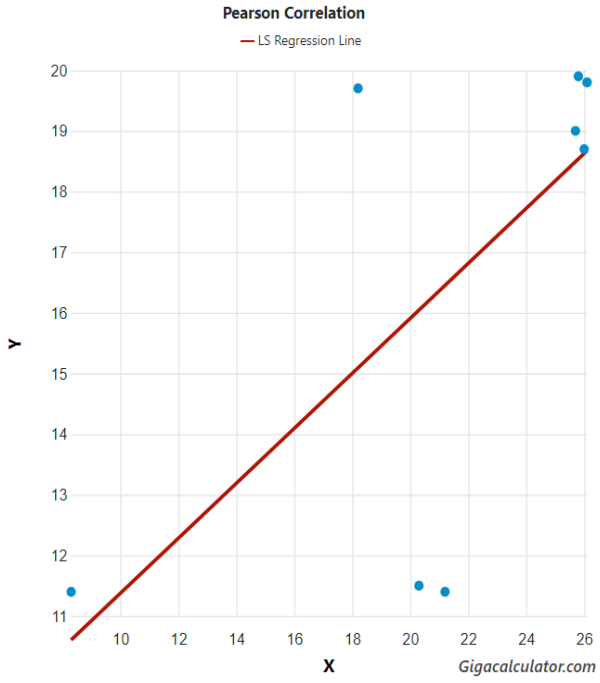

Fig. 5. Correlation between highest ocean water temperature and minimum temperature in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to maximum temperature (Fig. 6: r=0.70442272, Z score=2.14581602, n=9, p=0.01594377).

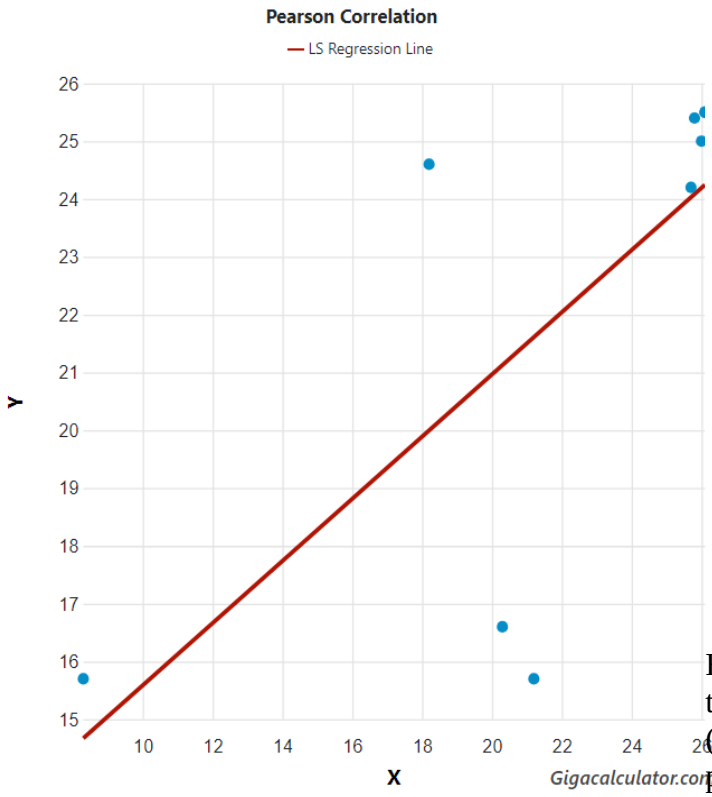

Fig. 6. Correlation between highest ocean water temperature and maximum temperature variation in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to surface area (Figure 7: r=0.57630785, Z score=2.54422753, r^2=0.3321, n=18, p=0.00547601).

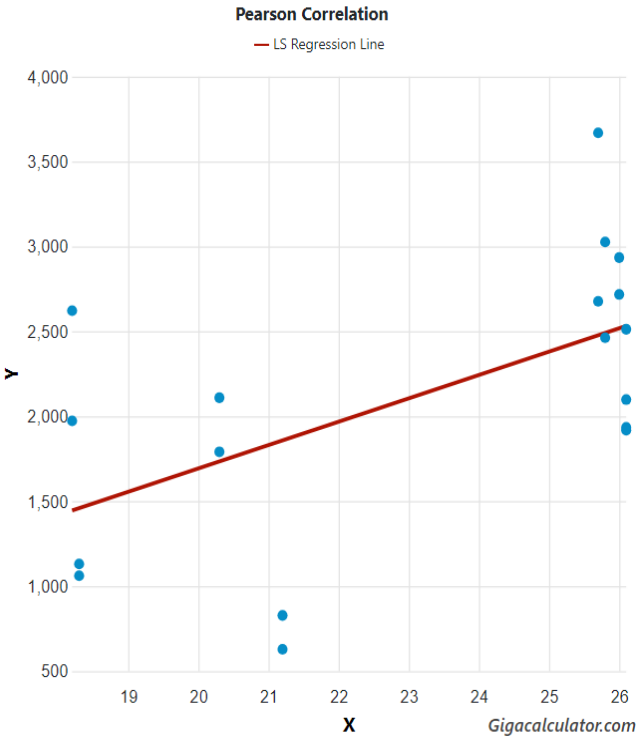

Fig. 7. Correlation between highest ocean water temperature and surface area in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to the month with the highest number of rainy days (Fig. 8: r=0.61969885, Z score=1.77469459, n=9, p=0.03797412).

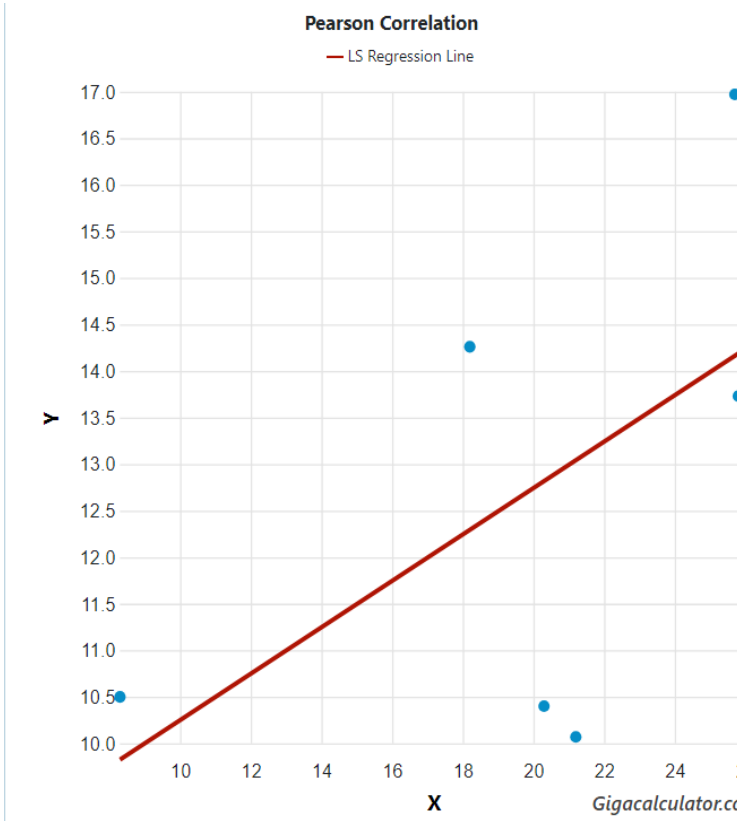

Fig. 8. Correlation between highest ocean water temperature and month with the highest number of rainy days in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to volume (Fig. 9: r=0.62180682, Z score=1.78309504, n=9, p=0.03728537).

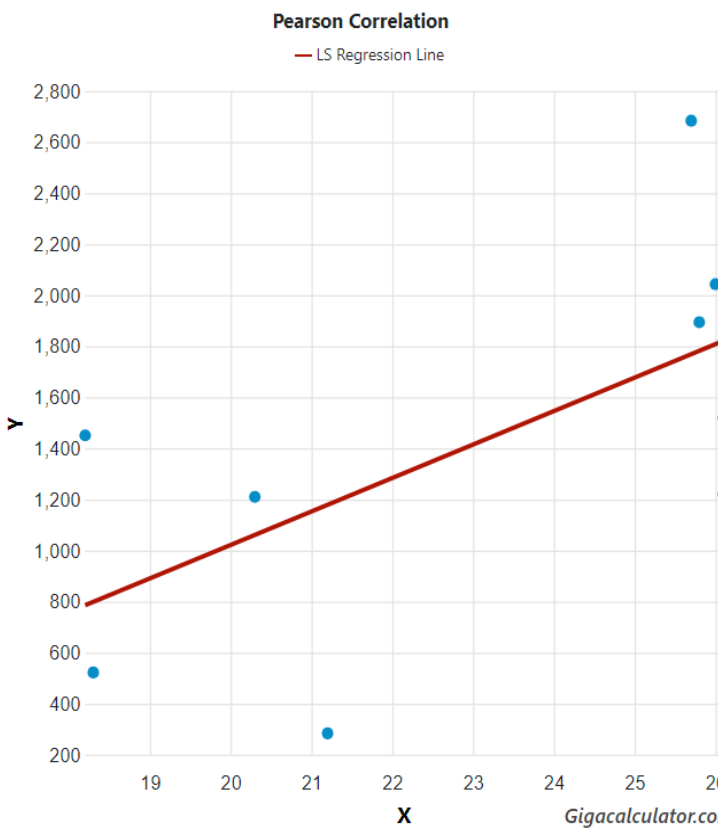

Fig. 9. Correlation between highest ocean water temperature and volume in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to precipitation (Fig. 10: r=0.68115886, Z score=2.03619423, r^2=0.484, n=9, p=0.02086536).

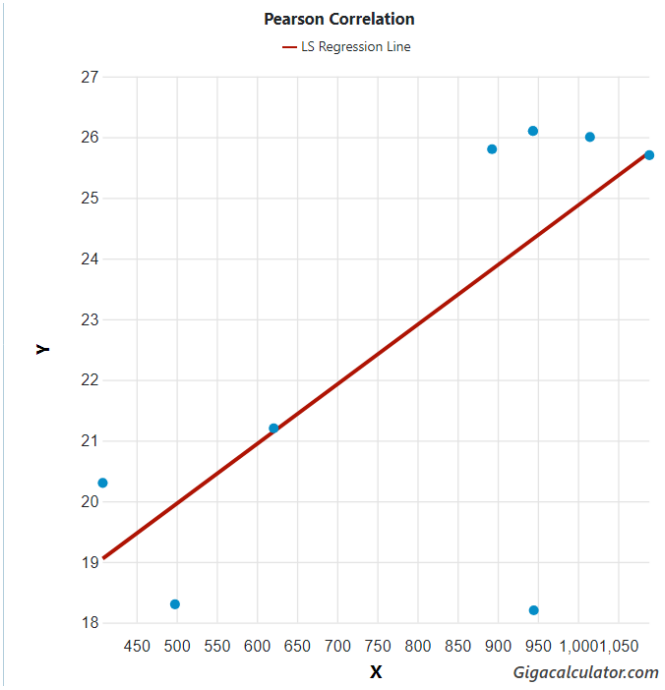

Fig. 10. Correlation between highest ocean water temperature and precipitation in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to highest relative humidity (Fig. 11: r=-0.68252142, Z score=-2.04243162, r^2=0.4658, n=9, p=0.02055430).

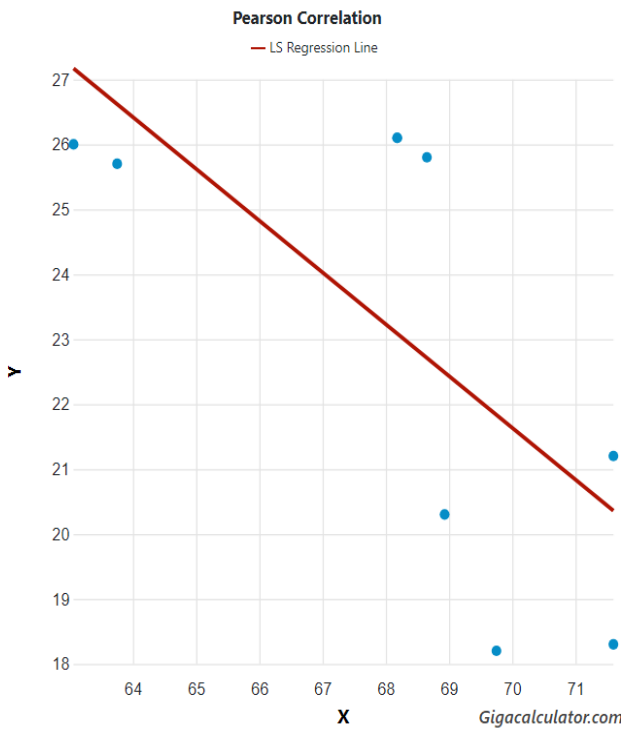

Fig. 11. Correlation between highest ocean water temperature and highest relative humidity in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to lowest relative humidity (Fig. 12: r=-0.6825, r^2=0.4658, n=9, p=0.042583).

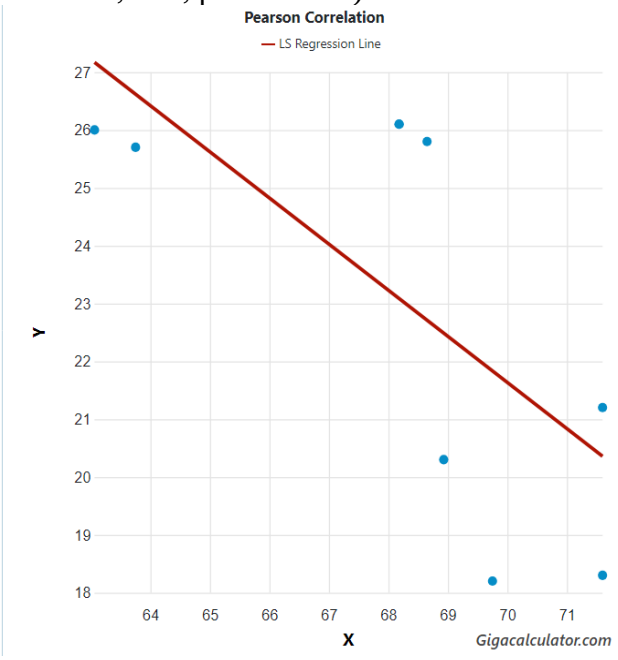

Fig. 12. Correlation between highest ocean water temperature and lowest relative humidity in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to male length (Fig. 13: r=0.62252089, Z score=1.78594881, n=9, p=0.03705372). Highest ocean water temperature was marginally related to female length (r=0.51639874, Z score=1.39967864, n=9, p=0.08080484). Combined male and female length correlated with highest ocean water temperature (Fig. 14: r=0.55554046, Z score=2.42588050, n=18, p=0.00763565).

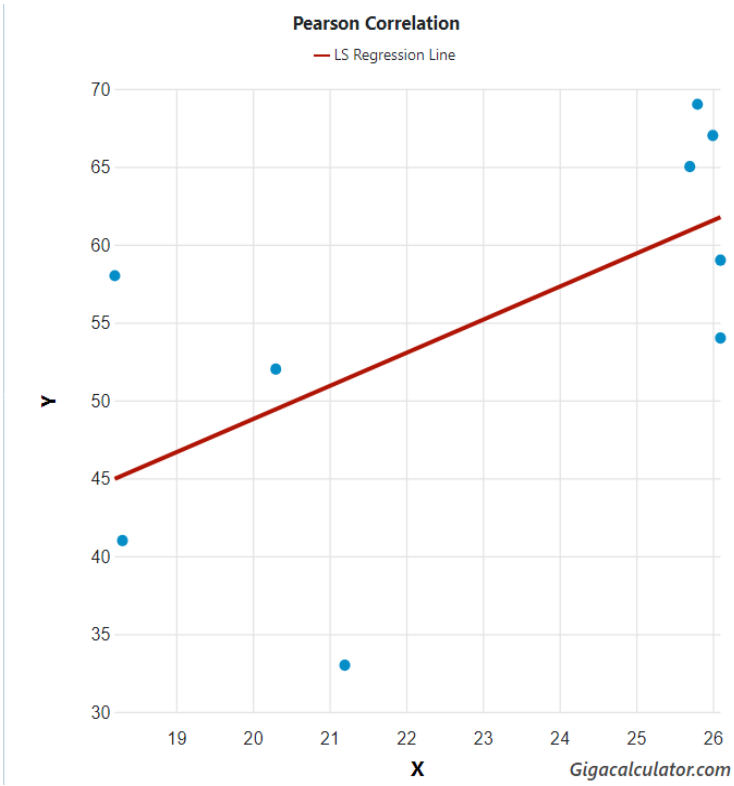

Fig. 13. Correlation between highest ocean water temperature and male length in *Centrobolus* Cook, 1897.

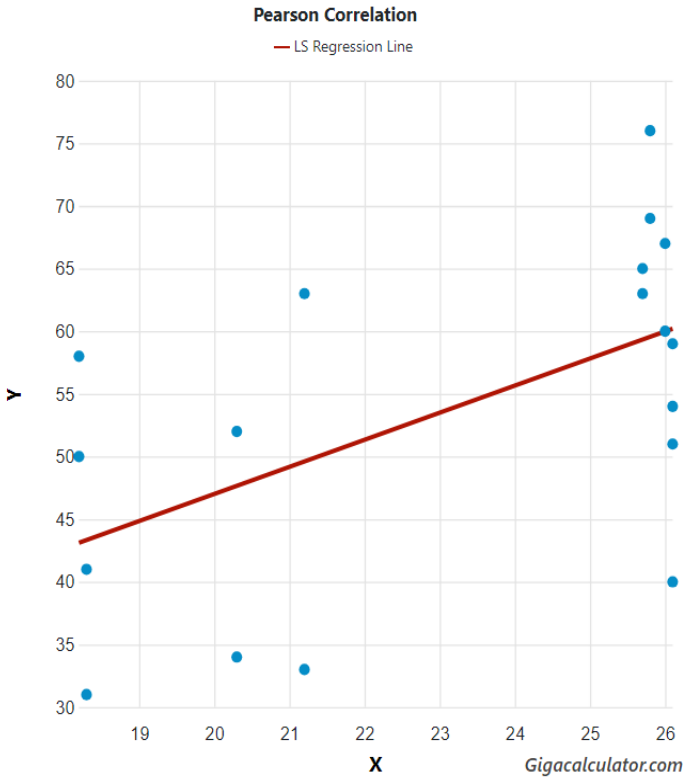

Fig. 14. Correlation between highest ocean water temperature and male and female length in *Centrobolus* Cook, 1897.

Highest ocean water temperature was related to male width (Fig. 15: r=0.66446087, Z score=1.96145090, n=9, p=0.02491315). Highest ocean water temperature was marginally related to female width (r=0.52758067, Z score=1.43732811, n=9, p=0.07531244). Combined male and female width correlated with highest ocean water temperature (Fig. 16: r=0.51618718, Z score=2.21196908, n=18, p=0.01348435).

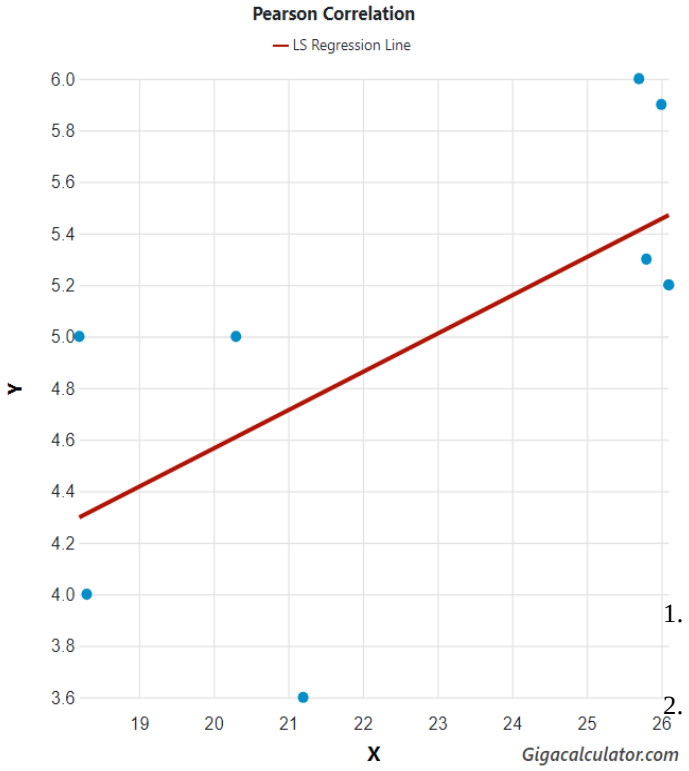

Fig. 15. Correlation between highest ocean water temperature and male width in *Centrobolus* Cook, 1897.

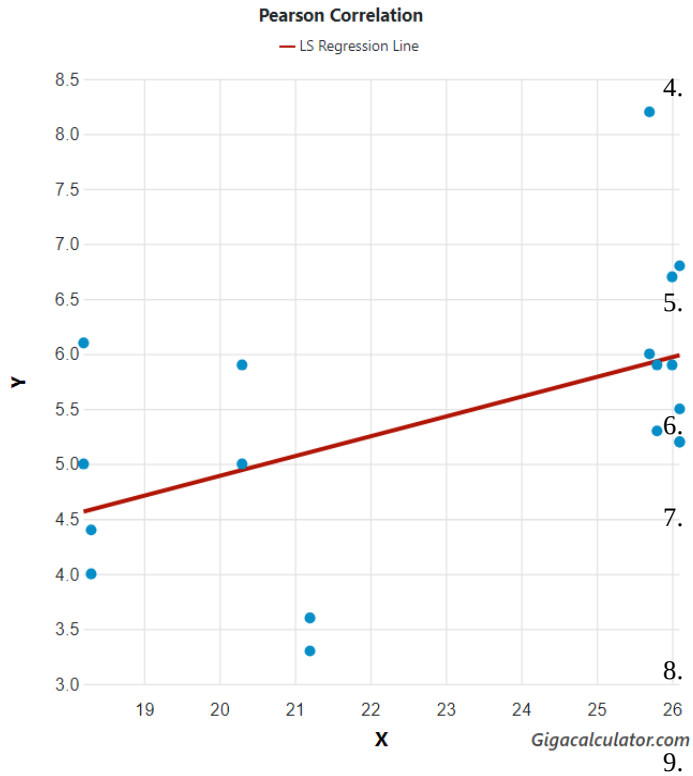

Fig. 16. Correlation between highest ocean water temperature and male and female width in *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between highest ocean water temperature and average temperature, longitude, latitude, lowest number of daily hours of sunshine throughout a month, minimum temperature, maximum temperature, surface area, month with the highest number of rainy days, volume, precipitation, highest relative humidity, lowest relative humidity, length, and width in *Centrobolus*.

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APPENDIX 1. Highest ocean temperature (degrees Celsius) in *Centrobolus* Cook, 1897.
25.80
18.30
20.30
26.10
26.00
18.20
25.70

Appendix 2 Average temperature (degrees Celsius) in coastal *Centrobolus* Cook, 1897.
20.4
16.5
16.9
21.9
19.5
16.4
19.7

Appendix 3. Longitude (degrees) in *Centrobolus* Cook, 1897.
31.084
18.357
19.350
32.049
30.754
18.348
30.451

Appendix 4. Latitude (degrees) in *Centrobolus* Cook, 1897.
-29.746190
-34.047685
-34.584895
-28.778417
-30.280460
-34.016370
-31.633371

APPENDIX 5. Lowest hours of sunshine in a day (h) across the range of *Centrobolus* Cook, 1897.
6.73
11.04
9.47
6.97
6.63
10.85
6.97
6.44
6.07

APPENDIX 6. Highest ocean temperature (degrees Celsius) followed by minimum temperature (degrees Celsius) in *Centrobolus* Cook, 1897.
25.80, 19.9
8.30, 11.4
20.30, 11.5

26.10, 19.8
26.00, 18.7
21.20, 11.4
26.10, 19.8
18.20, 19.7
25.70, 19.0

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

25.80, 25.4
8.30, 15.7
20.30, 16.6
26.10, 25.5
26.00, 25.0
21.20, 15.7
26.10, 25.5
18.20, 24.6
25.70, 24.2

APPENDIX 8. Highest ocean temperature (degrees Celsius) followed by surface area (mm^2) in *Centrobolus* Cook, 1897.

25.80
18.30
20.30
26.10
26.00
21.20
26.10
18.20
25.70
2462.87
1130.97
1790.71
1934.22
2717.29
827.87
2098.58
1972.92
2676.64
3026.01
1061.61
2109.33
2512.27
2934.19
628.26
1917.94
2621.60
3668.38

APPENDIX 9. Highest ocean temperature (degrees Celsius) followed by month with the highest number of rainy days in *Centrobolus* Cook, 1897.

25.80, 13.73
8.30, 10.50
20.30, 10.40
26.10, 13.97
26.00, 15.23
21.20, 10.07
26.10, 13.97
18.20, 14.26
25.70, 16.97

APPENDIX 10. Highest ocean temperature (degrees Celsius) followed by volume (mm^3) in *Centrobolus* Cook, 1897.

25.80, 1894
18.30, 522
20.30, 1210
26.10, 1518
26.00, 2043
21.20, 284
26.10, 1221
18.20, 1451
25.70, 2683

APPENDIX 11. Highest ocean temperature (degrees Celsius) followed by precipitation (mm) in *Centrobolus* Cook, 1897.

25.80
18.30
20.30
26.10
26.00
21.20
26.10
18.20
25.70
893
498
408
944
1015
621

944
945
1089

APPENDIX 12. Highest ocean temperature (degrees Celsius) followed by highest relative humidity (%) in coastal *Centrobolus* Cook, 1897.

25.80
18.30
20.30
26.10
26.00
21.20
26.10
18.20
25.70
68.65
71.60
68.93
68.18
63.06
71.60
68.18
69.75
63.75

APPENDIX 13. Highest ocean temperature (degrees Celsius) followed by lowest relative humidity (%) in coastal *Centrobolus* Cook, 1897.

25.80
18.30
20.30
26.10
26.00
21.20
26.10
18.20
25.70
68.65
71.60
68.93
68.18
63.06
71.60
68.18
69.75
63.75

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

25.80, 69
18.30, 41
20.30, 52
26.10, 54
26.00, 67
21.20, 33
26.10, 59
18.20, 58
25.70, 65

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

25.80, 76
18.30, 31
20.30, 34
26.10, 51
26.00, 60
21.20, 63
26.10, 40
18.20, 50

APPENDIX 16. Highest ocean temperature (degrees Celsius) followed by male width (mm) in coastal *Centrobolus* Cook, 1897.

25.80, 5.3
18.30, 4.0
20.30, 5.0
26.10, 5.2
26.00, 5.9
21.20, 3.6
26.10, 5.2
18.20, 5.0
25.70, 6.0

APPENDIX 17. Highest ocean temperature (degrees Celsius) followed by female width (mm) in coastal *Centrobolus* Cook, 1897.

25.80, 5.9
18.30, 4.4
20.30, 5.9
26.10, 6.8
26.00, 6.7
21.20, 3.3
26.10, 5.5
18.20, 6.1

25.70, 8.2.