

# FIFTEEN FACTORS RELATED TO THE AVERAGE MONTHLY DURATION OF SUNLIGHT IN FOREST RED MILLIPEDES *CENTROBOLUS COOK*, 1897

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**Abstract-** Fifteen factors were tested for a correlation with the average monthly duration of sunlight in red millipedes *Centrobolus*. Hours of sunshine throughout the year was related to average monthly duration of sunlight ( $r=0.93310143$ ,  $Z$  score= $7.33102145$ ,  $r^2=0.8688$ ,  $n=22$ ,  $p=0$ ). Average monthly duration of sunlight was related to longitude ( $r=0.6864$ ,  $r^2=0.4711$ ,  $n=22$ ,  $p=0.000424$ ). Average monthly duration of sunlight was related to precipitation ( $r=-0.7672$ ,  $r^2=0.5886$ ,  $n=22$ ,  $p=0.000031$ ). Average monthly duration of sunlight was related to minimum temperature ( $r=0.5702$ ,  $r^2=0.3251$ ,  $n=22$ ,  $p=0.005614$ ). Average monthly duration of sunlight was related to temperature ( $r=0.5219$ ,  $r^2=0.2724$ ,  $n=22$ ,  $p=0.012706$ ). Average monthly duration of sunlight was related to lowest daily hours of sunshine ( $r=0.87035736$ ,  $Z$  score= $5.81717529$ ,  $r^2=0.7548$ ,  $n=22$ ,  $p=0$ ). Average monthly duration of sunlight was related to curved surface area in females ( $r=-0.4336$ ,  $r^2=0.188$ ,  $n=22$ ,  $p=0.043582$ ). Average monthly duration of sunlight was marginally related to curved surface area in males ( $r=-0.4206$ ,  $r^2=0.1769$ ,  $n=22$ ,  $p=0.051035$ ). Average monthly duration of sunlight was related to curved surface area ( $r=-0.4071$ ,  $r^2=0.1657$ ,  $n=22$ ,  $p=0.00611$ ). Average monthly duration of sunlight was related to surface area ( $r=-0.39537025$ ,  $Z$  score= $-2.67746254$ ,  $r^2=0.1563$ ,  $n=22$ ,  $p=0.00370915$ ). Average monthly duration of sunlight was related to length ( $r=-0.39379655$ ,  $Z$  score= $-2.66552773$ ,  $r^2=0.2381$ ,  $n=22$ ,  $p=0.00384342$ ). Average monthly duration of sunlight was related to highest total hours of sunshine in a month ( $r=-0.6016$ ,  $r^2=0.3619$ ,  $n=22$ ,  $p=0.003033$ ). Average monthly duration of sunlight was related to maximum temperature ( $r=-0.447$ ,  $r^2=0.1998$ ,  $n=22$ ,  $p=0.037006$ ). Average monthly duration of sunlight was related to volume ( $r=-0.4389$ ,  $r^2=0.1926$ ,  $n=22$ ,  $p=0.040953$ ). Minimum ocean water temperature was related to average monthly duration of sunlight ( $r=-0.84285802$ ,  $Z$  score= $-3.01522781$ ,  $n=9$ ,  $p=0.001284$ ). Mean ocean water temperature was related to average monthly duration of sunlight ( $r=-0.85467114$ ,  $Z$  score= $-3.11876809$ ,  $n=9$ ,  $p=0.00090811$ ). Mating frequency was related to average monthly duration of sunlight ( $r=-0.92554221$ ,  $Z$  score= $-5.86394325$ ,  $n=16$ ,  $p=0$ ).

**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  $-17^\circ$  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

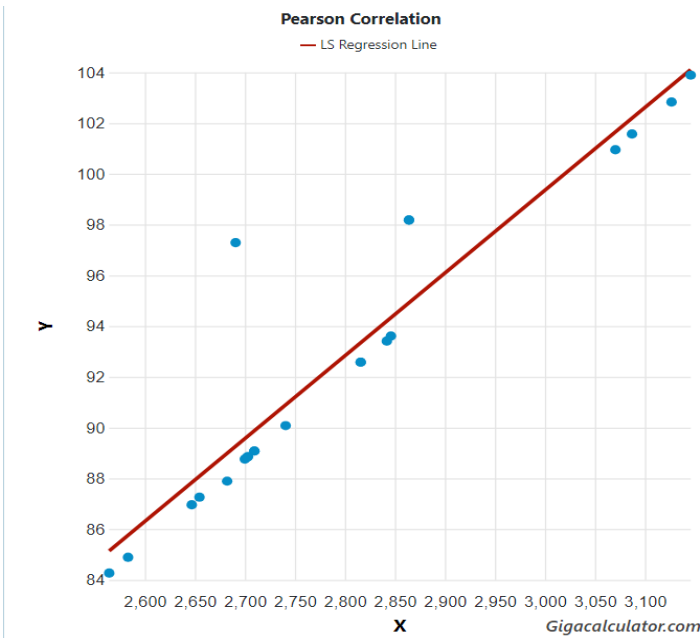
taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [427]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [426]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, fifteen factors are correlated with average monthly duration of sunlight in *Centrobolus Cook*, 1897.

## II. MATERIALS AND METHODS

Horizontal tergite width measurements for 22 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. A correlation between fifteen factors and average monthly duration of sunlight was generated at <https://www.gigacalculator.com/calculators/correlation-coefficient-calculator.php> and <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-17).

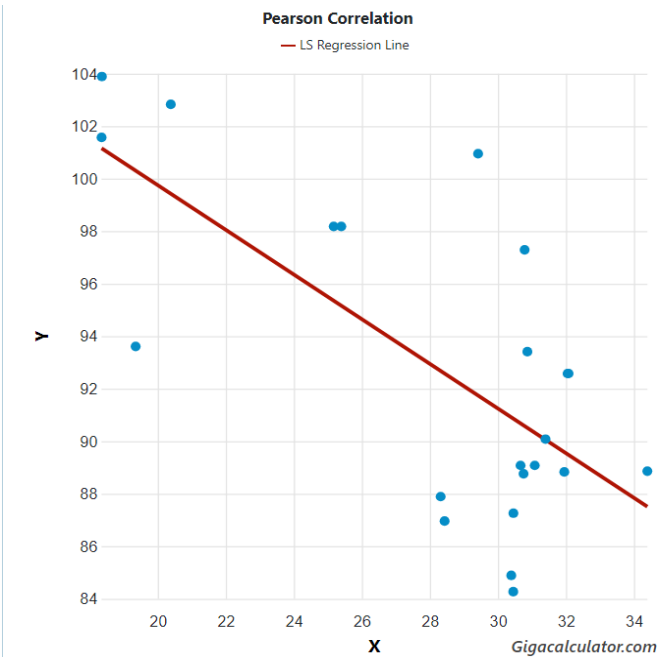
## III. RESULTS

Hours of sunshine throughout the year was related to average monthly duration of sunlight (Fig. 1:  $r=0.93310143$ ,  $Z$  score= $7.33102145$ ,  $r^2=0.8688$ ,  $n=22$ ,  $p=0$ ).



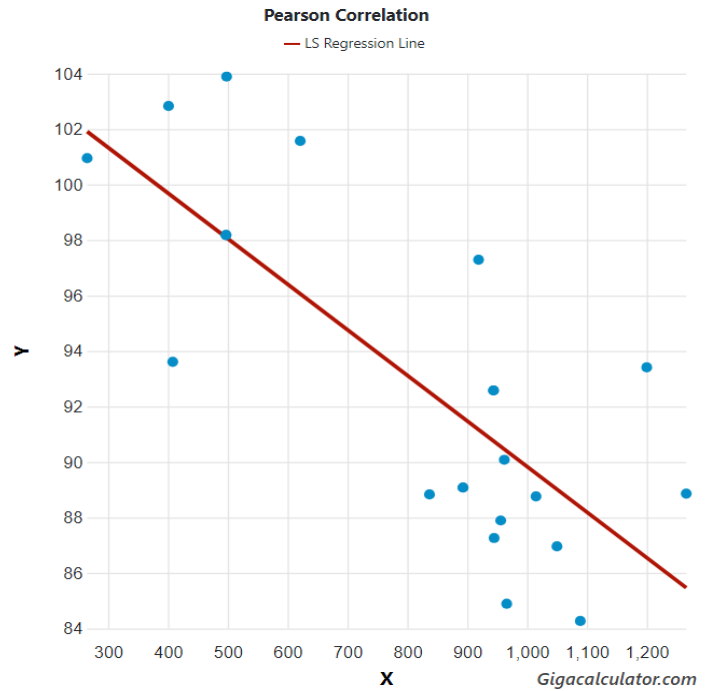
**Fig. 1. Correlation between hours of sunshine throughout the year (h) and average monthly duration of sunlight across the range of Centrobolus Cook, 1897.**

Average monthly duration of sunlight was related to longitude (Fig. 1:  $r = 0.6864$ ,  $r^2 = 0.4711$ ,  $n = 22$ ,  $p = 0.000424$ ).



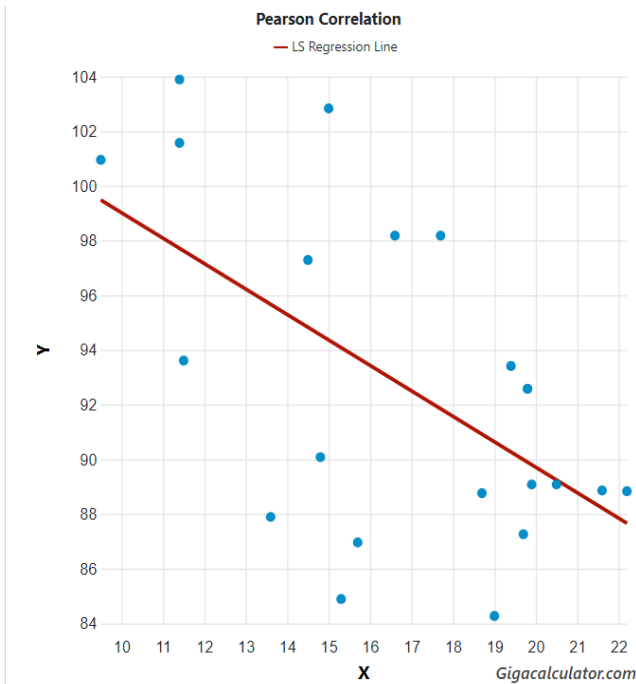
**Fig. 2. Correlation between average monthly duration of sunlight (h) and longitude across the range of Centrobolus Cook, 1897.**

Average monthly duration of sunlight was related to precipitation (Fig. 3:  $r = -0.7672$ ,  $r^2 = 0.5886$ ,  $n = 22$ ,  $p = 0.000031$ ).



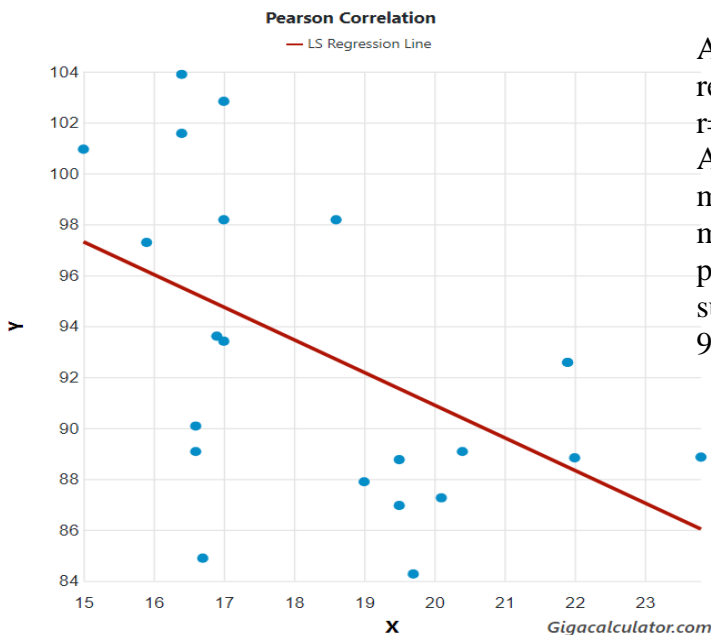
**Fig. 3. Correlation between average monthly duration of sunlight (h) and precipitation across the range of Centrobolus Cook, 1897.**

Average monthly duration of sunlight was related to minimum temperature (Fig. 4:  $r = -0.5702$ ,  $r^2 = 0.3251$ ,  $n = 22$ ,  $p = 0.005614$ ).



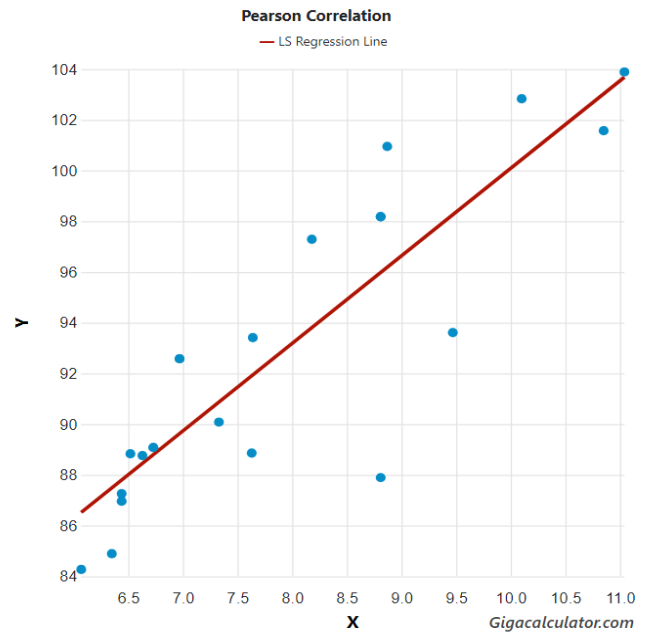
**Fig. 4. Correlation between average monthly duration of sunlight (h) and minimum temperature across the range of *Centrobolus Cook, 1897.***

Average monthly duration of sunlight was related to temperature (Fig. 5:  $r = -0.5219$ ,  $r^2 = 0.2724$ ,  $n = 22$ ,  $p = 0.012706$ ).



**Fig. 5. Correlation between average monthly duration of sunlight (h) and temperature across the range of *Centrobolus Cook, 1897.***

Average monthly duration of sunlight was related to lowest daily hours of sunshine (Fig. 6:  $r = 0.87035736$ ,  $Z \text{ score} = 5.81717529$ ,  $r^2 = 0.7548$ ,  $n = 22$ ,  $p = 0$ ).

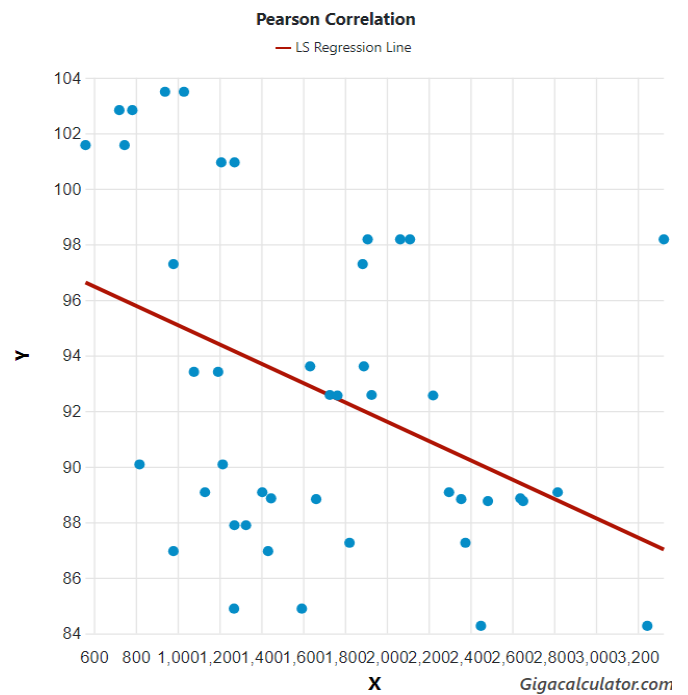


**Fig. 6. Correlation between average monthly duration of sunlight (h) and lowest daily hours of sunshine across the range of *Centrobolus Cook, 1897.***

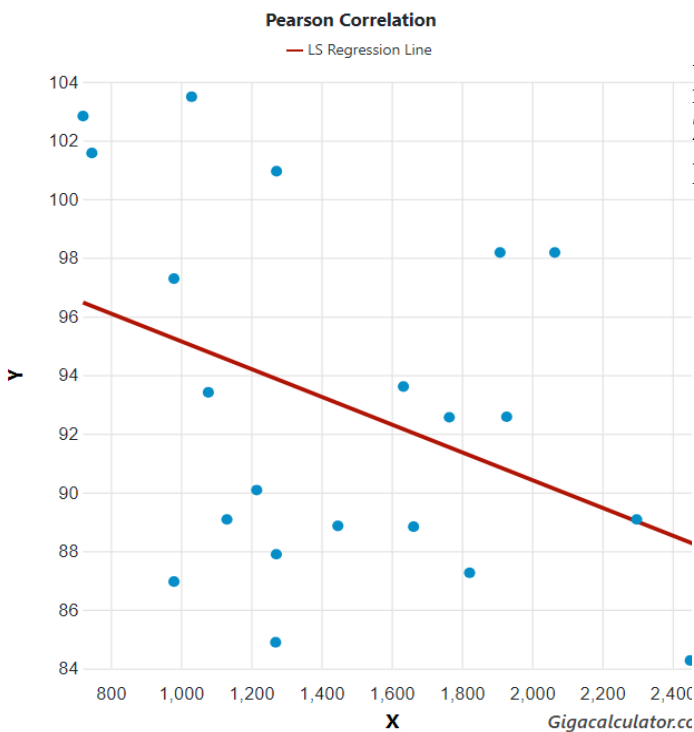
Average monthly duration of sunlight was related to curved surface area in females (Fig. 7:  $r = -0.4336$ ,  $r^2 = 0.188$ ,  $n = 22$ ,  $p = 0.043582$ ). Average monthly duration of sunlight was marginally related to curved surface area in males (Fig. 8:  $r = -0.4206$ ,  $r^2 = 0.1769$ ,  $n = 22$ ,  $p = 0.051035$ ). Average monthly duration of sunlight was related to curved surface area (Fig. 9:  $r = -0.4071$ ,  $r^2 = 0.1657$ ,  $n = 22$ ,  $p = 0.00611$ ).



**Fig. 7. Correlation between average monthly duration of sunlight (h) and curved surface area in females across the range of *Centrobolus* Cook, 1897.**

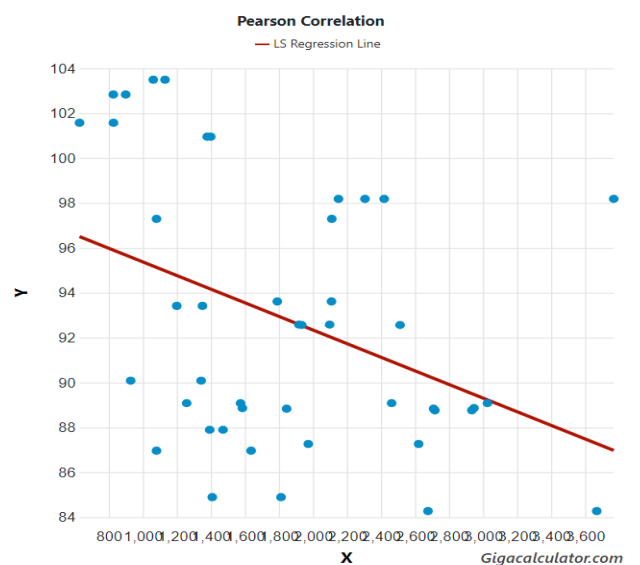


**Fig. 9. Correlation between average monthly duration of sunlight (h) and curved surface area across the range of *Centrobolus* Cook, 1897.**



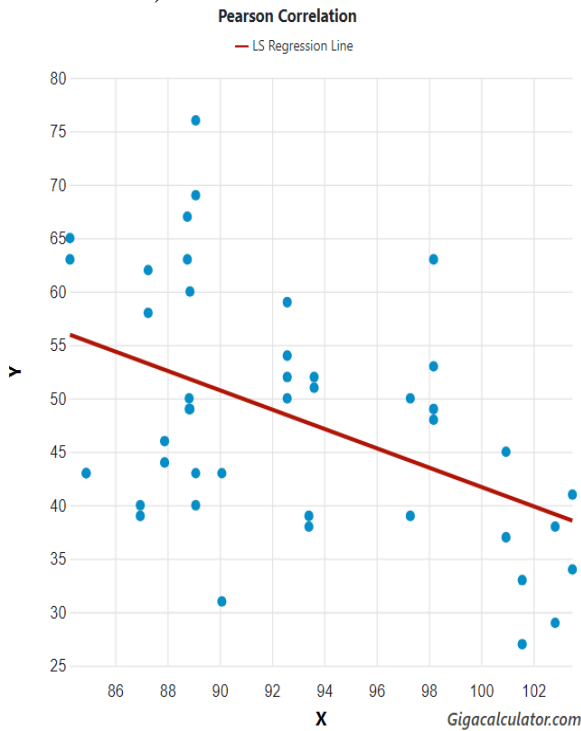
**Fig. 8. Correlation between average monthly duration of sunlight (h) and curved surface area in males across the range of *Centrobolus* Cook, 1897.**

Average monthly duration of sunlight was related to surface area (Fig. 10:  $r = -0.39537025$ ,  $Z$  score  $= -2.67746254$ ,  $r^2 = 0.1563$ ,  $n = 22$ ,  $p = 0.00370915$ ).



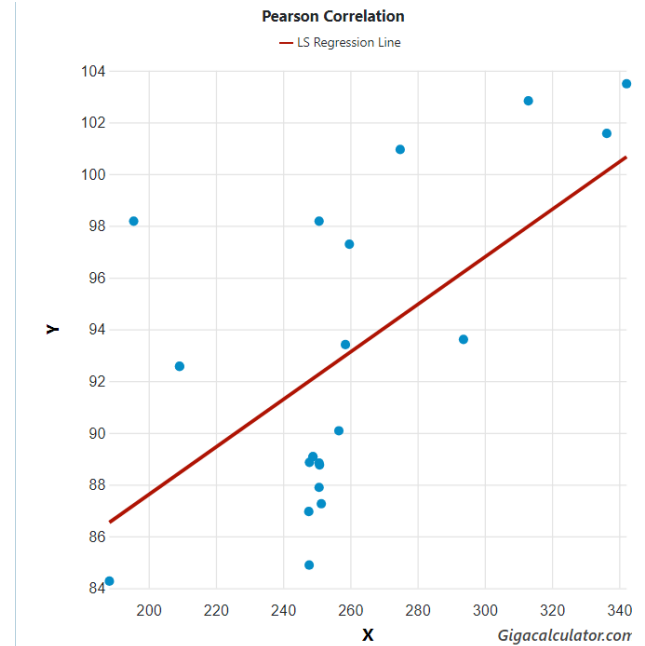
**Fig. 10. Correlation between average monthly duration of sunlight (h) and surface area in females across the range of *Centrobolus* Cook, 1897.**

Average monthly duration of sunlight was related to length (Fig. 11:  $r=-0.39379655$ , Z score= $-2.66552773$ ,  $r^2=0.2381$ ,  $n=22$ ,  $p=0.00384342$ ).



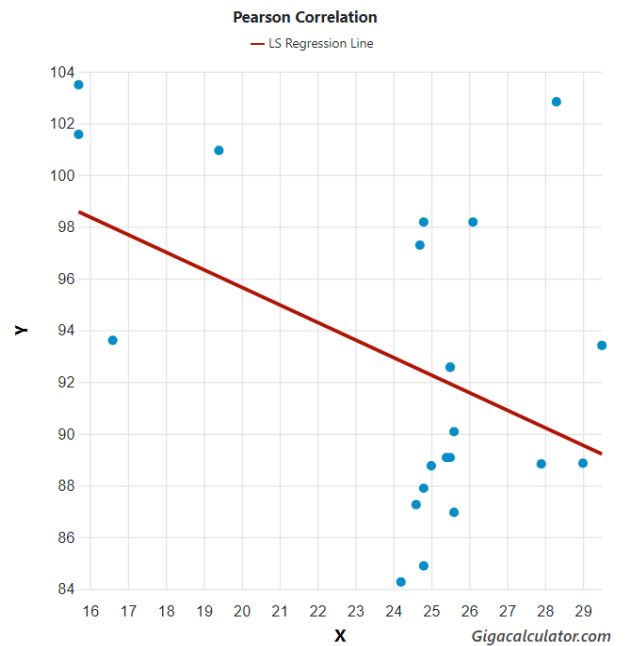
**Fig. 11. Correlation between average monthly duration of sunlight (h) and length across the range of *Centrobolus* Cook, 1897.**

Average monthly duration of sunlight was related to highest total hours of sunshine in a month (Fig. 12:  $r=-0.6016$ ,  $r^2=0.3619$ ,  $n=22$ ,  $p=0.003033$ ).



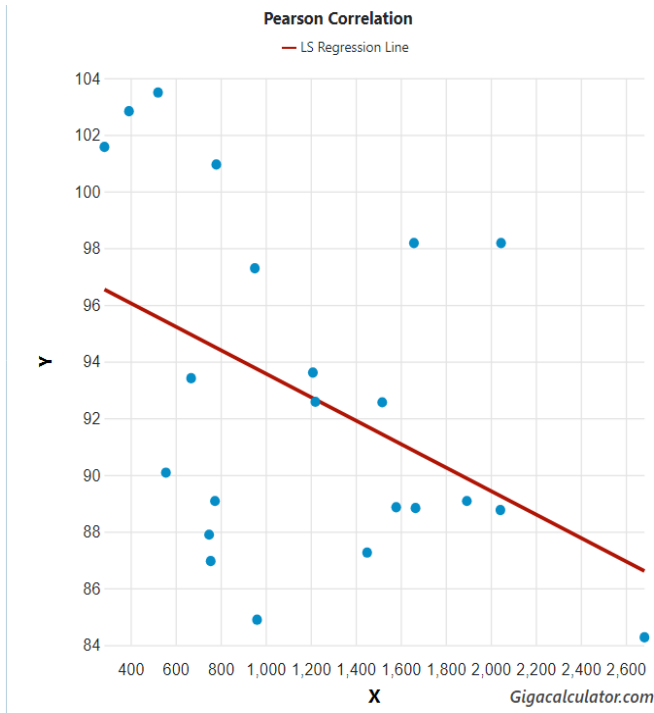
**Fig. 12. Correlation between average monthly duration of sunlight (h) and highest total hours of sunshine in a month in females across the range of *Centrobolus* Cook, 1897.**

Average monthly duration of sunlight was related to maximum temperature (Fig. 13:  $r=-0.447$ ,  $r^2=0.1998$ ,  $n=22$ ,  $p=0.037006$ ).



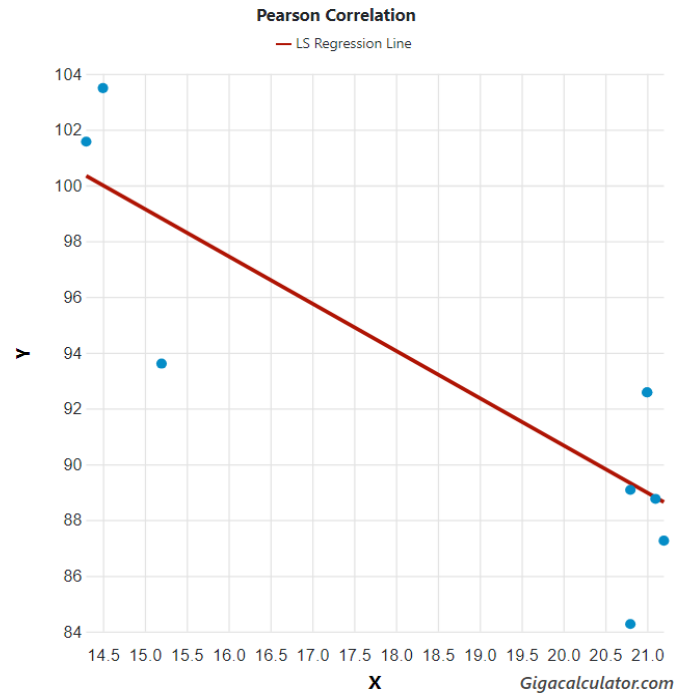
**Fig. 13. Correlation between average monthly duration of sunlight (h) and maximum temperature across the range of *Centrobolus* Cook, 1897.**

Average monthly duration of sunlight was related to volume (Fig. 14:  $r = -0.4389$ ,  $r^2 = 0.1926$ ,  $n = 22$ ,  $p = 0.040953$ ).



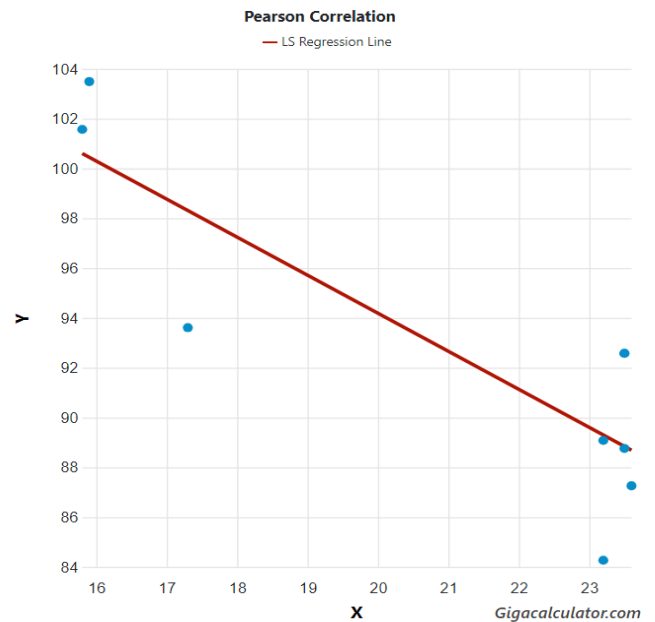
**Fig. 14. Correlation between average monthly duration of sunlight (h) and volume across the range of *Centrobolus Cook, 1897*.**

Minimum ocean water temperature was related to average monthly duration of sunlight (Fig. 15:  $r = -0.84285802$ ,  $Z \text{ score} = -3.01522781$ ,  $n = 9$ ,  $p = 0.001284$ ).



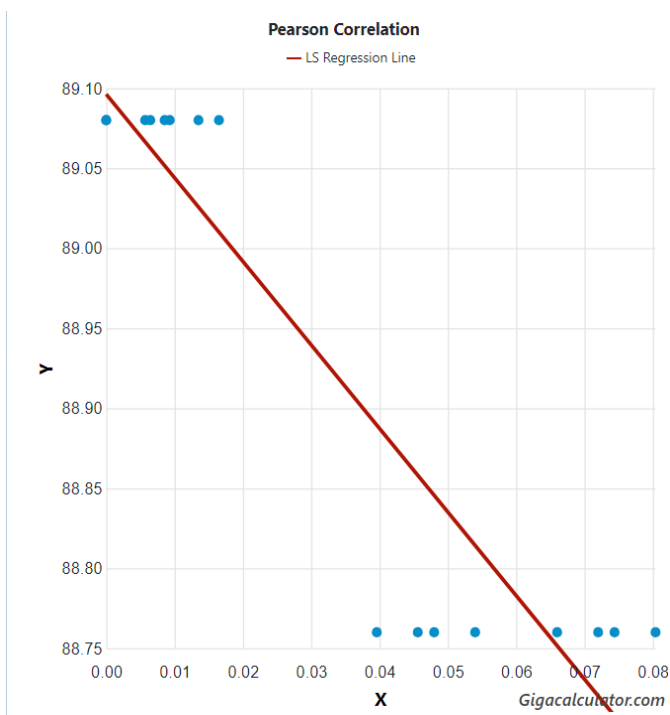
**Fig. 15. Correlation between minimum ocean water temperature and average monthly duration of sunlight in *Centrobolus Cook, 1897*.**

Mean ocean water temperature was related to average monthly duration of sunlight (Fig. 16:  $r = -0.85467114$ ,  $Z \text{ score} = -3.11876809$ ,  $n = 9$ ,  $p = 0.00090811$ ).



**Fig. 16. Correlation between mean ocean water temperature and average monthly duration of sunlight in *Centrobolus* Cook, 1897.**

Mating frequency was related to average monthly duration of sunlight (Fig. 17:  $r = -0.92554221$ ,  $Z \text{ score} = -5.86394325$ ,  $n = 16$ ,  $p = 0$ ).



**Fig. 17. Correlation between mating frequency and average monthly duration of sunlight in *Centrobolus* Cook, 1897.**

#### IV. DISCUSSION

There is a correlation between fifteen factors and average monthly duration of sunlight.

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**APPENDIX 1.** Hours of sunshine throughout the year across the range of *Centrobolus* Cook, 1897.

2690.72  
2709.47  
2740.74  
3145.74

2846.04	31.084
2815.76	31.400
2703.13	18.357
2699.92	19.350
2709.47	32.049
2583.18	34.394
2864.06	30.754
3087.04	30.666
2646.85	30.393
2815.76	25.173
2654.59	18.348
2702.09	28.433
2864.06	32.078
2682.25	30.456
3126.58	31.952
2841.89	25.396
3070.45	28.317
2564.32	20.383

**APPENDIX 2.** The average monthly duration of sunlight across the range of *Centrobolus* Cook, 1897.

97.29	30.867
89.08	29.418
90.08	30.451
103.49	
93.61	
92.58	
88.86	
88.76	
89.08	
84.89	
98.18	
101.57	
86.96	
92.58	
87.26	
88.83	
98.18	
87.89	
102.83	
93.41	
100.95	
84.27	

**APPENDIX 3.** Longitude across the range of *Centrobolus* Cook, 1897.

30.786	1089
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**APPENDIX 4.** Precipitation across the range of *Centrobolus* Cook, 1897.

919
893
962
498
408
944
1266
1015
893
966
497
621
1050
944
945
837
497
956
401
1200
265
1089

**APPENDIX 5.** Minimum temperature across the range of *Centrobolus* Cook, 1897.

14.5  
19.9  
14.8  
11.4  
11.5  
19.8  
21.6  
18.7  
20.5  
15.3  
17.7  
11.4  
15.7  
19.8  
19.7  
22.2  
16.6  
13.6  
15.0  
19.4  
9.5  
19.0

**APPENDIX 6.** Temperature across the range of *Centrobolus* Cook, 1897.

15.9  
20.4  
16.6  
16.4  
16.9  
21.9  
22.8  
19.5  
16.6  
16.7  
17.0  
16.4  
19.5  
21.9  
20.1  
22.0  
18.6  
19.0  
17.0  
17.0

15.0  
19.7

**APPENDIX 7.** Lowest daily hours of sunshine across the range of *Centrobolus* Cook, 1897.

8.18  
6.73  
7.33  
11.04  
9.47  
6.97  
7.63  
6.63  
6.73  
6.35  
8.81  
10.85  
6.44  
6.97  
6.44  
6.52  
8.81  
8.81  
10.10  
7.64  
8.87  
6.07

**APPENDIX 8.** Curved surface area (mm<sup>2</sup>) in male *Centrobolus* Cook, 1897.

980.177  
2297.861  
1215.796  
1030.442  
1633.628  
1764.318  
1447.018  
2483.743  
1130.973  
1269.832  
2064.655  
746.442  
980.177  
1927.681  
1822.124  
1662.531  
1908.832  
1271.717

721.31	1972.92
1078.195	1845.75
1272.345	2150.36
2450.442	1393.36
<b>APPENDIX 9.</b> Curved surface area (mm <sup>2</sup> ) in female <i>Centrobolus</i> Cook, 1897. (Curved surface area at low species richness denoted low in parentheses).	826.93
1884.956	1199.84
2817.38	1399.58
818.071	2676.64
939.965	2111.15
1890.61	3026.01
2221.734	928.91
2638.938	1061.61
2652.133	2109.33
1404.92	2512.27
1594.044	2946.81
3325.062	2934.19
559.832	1574.82
1432.566	1812.76
1727.876	3768.40
2376.301	628.26
2356.194	1636.71
2111.15	1917.94
1327.009	2621.60
783.513	2709.62
1193.805	2419.03
1208.885	1471.77
3245.894	899.69
<b>APPENDIX 10.</b> Surface area (mm <sup>2</sup> ) in <i>Centrobolus</i> Cook, 1897.	1350.89
1080.71	1378.78
2462.87	3668.38
1343.03	<b>APPENDIX 11.</b> Length (mm) in <i>Centrobolus</i> Cook, 1897.
1130.97	50
1790.71	76
1934.22	31
1585.81	34
2717.29	51
1258.21	52
1408.63	60
2306.18	63
827.87	43
1080.71	43
2098.58	63
	27
	40
	50

62	251.38
50	250.72
48	195.55
44	250.72
29	312.99
38	258.55
37	274.85
63	188.32
39	
69	
43	
41	
52	
54	
49	
67	
40	
43	
53	
33	
39	
59	
58	
49	
49	
46	
28	
39	
45	
65	

**APPENDIX 12.** Highest total hours of sunshine in a month in *Centrobolus* Cook, 1897.

259.73	19.4
248.89	24.2
256.60	
342.21	
293.68	
209.20	
247.85	
250.86	
248.89	
247.77	
250.72	
336.32	
247.65	
209.20	

**APPENDIX 13.** Maximum temperature in *Centrobolus* Cook, 1897.

24.7
25.4
25.6
15.7
16.6
25.5
29.0
25.0
25.5
24.8
24.8
15.7
25.6
25.5
24.6
27.9
26.1
24.8
28.3
29.5
19.4
24.2

**APPENDIX 14.** Volume in *Centrobolus* Cook, 1897.

952
1894
557
522
1210
1518
1580
2043
775
962
2046
284



756	0.00645, 89.08
1221	0.066, 88.76
1451	0.054, 88.76
1666	0.0744, 88.76
1659	0.0456, 88.76
749	0.072, 88.76
393	0.048, 88.76
669	0.0396, 88.76
781	0.0804, 88.76
2683	

**APPENDIX 15.** Minimum ocean temperature (degrees Celsius) followed by average monthly duration of sunlight (h) in coastal *Centrobolus* Cook, 1897.

20.80, 89.08
14.50, 103.49
15.20, 93.61
21.00, 92.58
21.10, 88.76
14.30, 101.57
21.00, 92.58
21.20, 87.26
20.80, 84.27

**APPENDIX 16.** Mean ocean temperature (degrees Celsius) followed by average monthly duration of sunlight (h) in coastal *Centrobolus* Cook, 1897.

23.20, 89.08
15.90, 103.49
17.30, 93.61
23.50, 92.58
23.50, 88.76
15.80, 101.57
23.50, 92.58
23.60, 87.26
23.20, 84.27

**APPENDIX 17.** Mating frequency followed by average monthly duration of sunlight (h) in coastal *Centrobolus* Cook, 1897.

0, 89.08
0, 89.08
0.0165, 89.08
0.0135, 89.08
0.0093, 89.08
0.0057, 89.08
0.00855, 89.08