CURVED SURFACE AREA IS RELATED TO SECOND POLAR MOMENTS OF INERTIA IN FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897

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***Abstract*- Curved surface area was tested for a correlation with second polar moments of inertia in red millipedes *Centrobolus*. Male curved surface area was correlated with second polar moments of inertia (Pearson's r=0.69904571, Z score=3.77232986, n=22, p=0.00008089). Female curved surface area was correlated with second polar moments of inertia (Pearson's r=0.80438147, Z score=4.84231537, n=22, p=0.00000064).**

Keywords: **curved surface area, red Millipedes, second.**

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 [1-297]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [226]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [225]. These worm-like millipedes have female-biased sexual size dimorphism [57].

Here, curved surface area is correlated with second polar moments of inertia 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 (mm^2) were calculated based on the equation $2 \cdot \pi \cdot r \cdot (r + h)$ for males and females. A correlation between curved surface area and second polar moments of inertia was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1 & 2).

III. RESULTS

Male curved surface area was correlated with second polar moments of inertia (Fig. 1: Pearson's r=0.69904571, Z score=3.77232986, n=22, p=0.00008089). Female curved surface area was correlated with second polar moments of inertia (Fig. 2: Pearson's r=0.80438147, Z score=4.84231537, n=22, p=0.00000064).

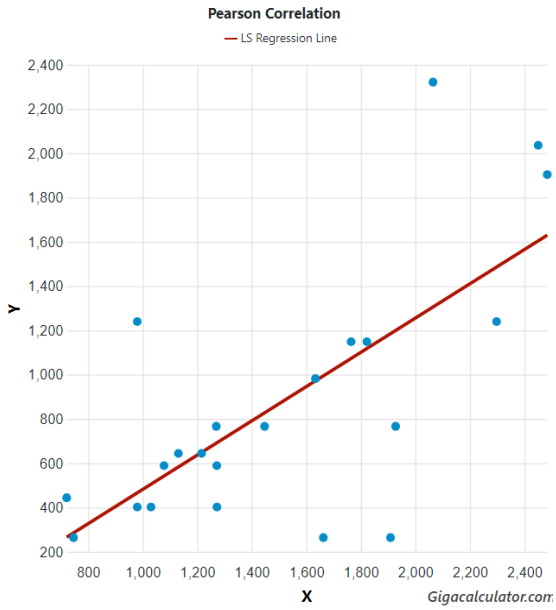

Fig. 1. Correlation between male curved surface area and second polar moments of inertia across therange of *Centrobolus* Cook, 1897.

Fig. 2. Correlation between female curved surface area and second polar moments of inertia across therange of *Centrobolus* Cook, 1897.

IV. DISCUSSION

There is a correlation between curved surface area and second polar moments of inertia.

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[306] Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN CENTROBOLUS COOK, 1897. (In Prep.).
[307] Cooper Mark. SURFACE AREA-TO-VOLUME RATIO IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN CENTROBOLUS COOK, 1897. (In Prep.).
[308] Cooper Mark. SURFACE AREA-TO-VOLUME RATIO ARE RELATED TO SECOND POLAR MOMENTS OF INERTNESS IN CENTROBOLUS COOK, 1897. (In Prep.).
[309] Cooper Mark. STERNITE PROMINENCE IS RELATED TO SECOND POLAR MOMENTS OF INERTNESS IN CENTROBOLUS COOK, 1897. (In Prep.).
[310] Cooper Mark. STERNITE PROMINENCE IS RELATED TO LOWEST RELATIVE HUMIDITY IN CENTROBOLUS COOK, 1897. (In Prep.).
[311] Cooper Mark. Surface area to volume ratio correlates with the lowest average temperature in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[312] Cooper Mark. Male surface area to volume ratio correlates with female surface area to volume ratio in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[313] Cooper Mark. Male surface area to volume ratio correlates with the lowest average temperature in pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[314] Cooper Mark. Mean annual temperature varies with the lowest average temperature in determining the size of female pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).

[315] Cooper Mark. Mean annual temperature varies with the highest average temperature in determining the size of female pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[316] Cooper Mark. The driest months varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[317] Cooper Mark. The wettest months varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[318] Cooper Mark. The difference between the driest and wettest months varies with the distance to the closest airport across the distribution of pill millipedes Sphaerotherium Brandt, 1833. (In Prep.).
[319] SURFACE AREA IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[320] Cooper Mark. SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[321] Cooper Mark. SPECIES RICHNESS IS MARGINALLY RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[322] Cooper Mark. SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO SPECIES RICHNESS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[323] Cooper Mark. SPECIES RICHNESS IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[324] Cooper Mark. SPECIES RICHNESS IS RELATED to PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[325] Cooper Mark. SPECIES RICHNESS IS RELATED MAXIMUM TEMPERATURE IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[326] Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[327] Cooper Mark. MOMENTS OF INERTIA ARE RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[328] Cooper Mark. WIDTH MODELS WITH MATING FREQUENCY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[329] Cooper Mark. FEMALE WIDTH IS RELATED TO LOWEST NUMBER OF HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[330] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[331] Cooper Mark. WIDTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[332] Cooper Mark. LENGTH IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[333] Cooper Mark. WIDTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[334] Cooper Mark. LENGTH IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[335] Cooper Mark. SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[336] Cooper Mark. SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[337] Cooper Mark. CURVED SURFACE AREA IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[338] Cooper Mark. CURVED SURFACE AREA IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[339] Cooper Mark. MATING FREQUENCIES ARE RELATED TO MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[340] Cooper Mark. MATING FREQUENCIES ARE RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[341] Cooper Mark. MATING FREQUENCIES ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[342] Cooper Mark. LENGTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[343] Cooper Mark. WIDTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[344] Cooper Mark. VOLUME IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[345] Cooper Mark. PRECIPITATION IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[346] Cooper Mark. CURVED SURFACE AREA IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[347] Cooper Mark. SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[348] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO

MEAN OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[349] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[350] Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[351] Cooper Mark. SURFACE AREA IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[352] Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[353] Cooper Mark. MEAN OCEAN WATER TEMPERATURE IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[354] Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MEAN OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[355] Cooper Mark. TEMPERATURE IS RELATED MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[356] Cooper Mark. SEXUAL SIZE DIMORPHISM IS CORRELATED TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[357] Cooper Mark. TEMPERATURE IS RELATED MINIMUM OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[358] Cooper Mark. SEXUAL SIZE DIMORPHISM IS CORRELATED TO MINIMUM OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[359] Cooper Mark. MINIMUM OCEAN WATER TEMPERATURE IS RELATED TO HIGHEST NUMBER OF DAILY HOURS OF SUNSHINE IN A MONTH IN FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[360] Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO MINIMUM OCEAN WATER TEMPERATURE NEAR FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[361] Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[362] Cooper Mark. SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[363] Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[364] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[365] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[366] Cooper Mark. SECOND POLAR MOMENTS OF INERTNESS ARE RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[367] Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[368] Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[369] Cooper Mark. PRECIPITATION IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[370] Cooper Mark. VOLUME IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[371] Cooper Mark. WIDTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[372] Cooper Mark. LENGTH IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[373] Cooper Mark. WIDTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FORESTRED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[374] Cooper Mark. LENGTH IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FORESTRED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[375] Cooper Mark. LOWEST RELATIVE HUMIDITY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

[376] Cooper Mark. HIGHEST RELATIVE HUMIDITY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[377] Cooper Mark. CURVED SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS* COOK, 1897. (In Prep.).
[378] Cooper Mark. PRECIPITATION IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[379] Cooper Mark. MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[380] Cooper Mark. SURFACE AREA IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES IN COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[381] Cooper Mark. MAXIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[382] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[383] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO HIGHEST OCEAN WATER TEMPERATURE NEAR FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[384] Cooper Mark. LATITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[385] Cooper Mark. LONGITUDE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST REDMILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[386] Cooper Mark. AVERAGE TEMPERATURE IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[387] Cooper Mark. AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[388] Cooper Mark. CURVED SURFACE AREA IS RELATED AVERAGE TEMPERATURE VARIATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[389] Cooper Mark. AVERAGE TEMPERATURE VARIATION IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[390] Cooper Mark. CURVED SURFACE AREA IS RELATED TO SPECIES RICHNESS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[391] Cooper Mark. CURVED SURFACE AREA IS RELATED TO SECOND POLAR MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[392] Cooper Mark. CURVED SURFACE AREA IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[393] Cooper Mark. CURVED SURFACE AREA IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[394] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[395] Cooper Mark. LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[396] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[397] Cooper Mark. MINIMUM TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[398] Cooper Mark. TEMPERATURE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[399] Cooper Mark. PRECIPITATION IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[400] Cooper Mark. PRECIPITATION IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[401] Cooper Mark. HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[402] Cooper Mark. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[403] Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[404] Cooper Mark. SPECIES RICHNESS IS NOT RELATED TO DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[405] Cooper Mark. MATING FREQUENCY IS RELATED to DISTANCE TO THE NEAREST AIRPORT IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[406] Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).

[407] Cooper Mark. DISTANCE TO THE NEAREST AIRPORT IS RELATED TO MONTH WITH THE HIGHEST NUMBER OF RAINY DAYS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (In Prep.).
[408] Cooper Mark. STERNITE PROMINENCE IS RELATED TO ABUNDANCE IN CENTROBOLUS COOK, 1897. (In Prep.).

APPENDIX 1. Curved surface areas in males followed by second polar moments of inertia across the range of *Centrobolus* Cook, 1897.

980.177, 402.124
2297.861, 1239.434
1215.796, 644.125
1030.442, 402.124
1633.628, 981.748
1764.318, 1148.506
1447.018, 766.499
2483.743, 1903.390
1130.973, 644.125
1269.832, 766.499
2064.655, 2321.061
746.442, 263.834
980.177, 1239.434
1927.681, 766.499
1822.124, 1148.506
1662.531, 263.833
1908.832, 263.833
1271.717, 588.750
721.31, 443.870
1078.195, 588.750
1272.345, 402.124
2450.442, 2035.752

APPENDIX 2. Curved surface areas in females followed by second polar moments of inertia across the range of *Centrobolus* Cook, 1897.

1884.956, 2035.75204
2817.38, 644.12467
818.071, 488.784066
939.965, 588.749544
1890.61, 644.12467
2221.734, 3358.5787
2638.938, 3771.48199,
2652.133, 3165.33069,
1404.92, 766.498501
1594.044, 644.12467
3325.062, 7820.54505,
559.832, 186.284035
1432.566, 1658.13276,
1727.876, 1437.37682
2376.301, 2174.89962
2356.194, 4970.09776
2111.15, 3771.48199
1327.009, 833.844037
783.513, 537.024006
1193.805, 1148.50596,
1208.885, 766.498501
3245.894, 7101.91201