

# HYPOTHETICAL AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH AND SURFACE AREA IN FOREST RED MILLIPEDES *CENTROBOLUS COOK, 1897*

M. IAN COOPER  
City of Johannesburg.

**Abstract-** Length was tested for a correlation with average temperature variation in red millipedes *Centrobolus*. Male length was related to average temperature variation ( $r=-0.37949510$ ,  $Z$  score= $-1.74124792$ ,  $n=22$ ,  $p=0.04082002$ ) and female length was related to average temperature variation ( $r=-0.37877937$ ,  $Z$  score= $-1.73760440$ ,  $r^2=0.1426$ ,  $n=22$ ,  $p=0.04114023$ ). Length was related to average temperature variation ( $r=-0.37760124$ ,  $Z$  score= $-2.54369893$ ,  $n=44$ ,  $p=0.00548430$ ). The surface area was tested for a correlation with average temperature variation in red millipedes *Centrobolus*. The surface area was correlated with average temperature variation ( $r=-0.34223958$ ,  $Z$  score= $-2.28352720$ ,  $r^2=0.1171$ ,  $n=44$ ,  $p=0.01119963$ ).

**Keywords:** length, Red Millipedes, temperature, surface.

## 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 [1-901]. It consists of taxonomically important species with 12 species considered threatened and includes nine vulnerable and three endangered species [901]. It occurs in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [900]. These worm-like millipedes have female-biased sexual size dimorphism [57]. Here, the length and surface area were tested for a correlation with average temperature variation in *Centrobolus* Cook, 1897.

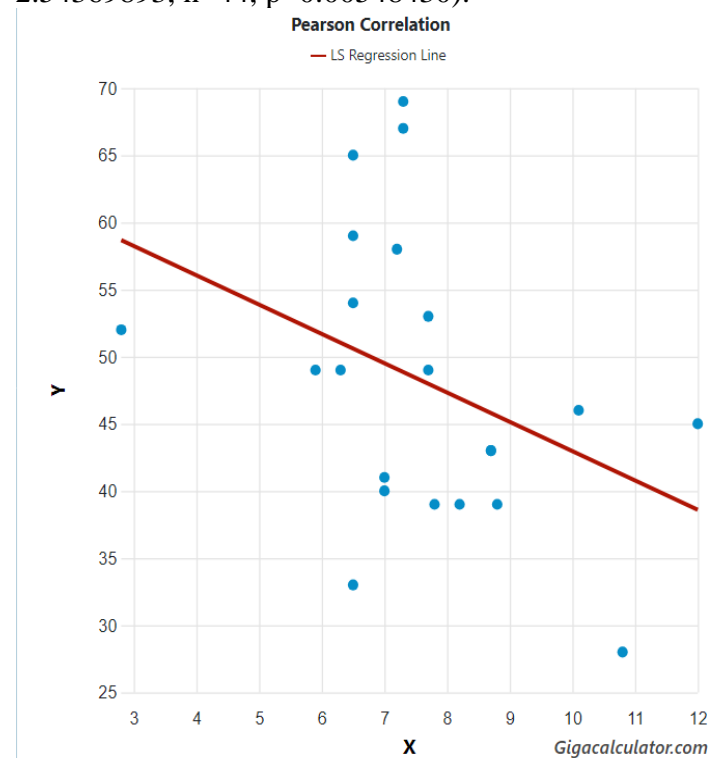
## II. MATERIALS AND METHODS

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 the surface area, and length with average temperature variation was

generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1-4).

## III. RESULTS

Male length was related to average temperature variation (Fig. 1:  $r=-0.37949510$ ,  $Z$  score= $-1.74124792$ ,  $n=22$ ,  $p=0.04082002$ ) and female length was related to average temperature variation (Fig. 2:  $r=-0.37877937$ ,  $Z$  score= $-1.73760440$ ,  $r^2=0.1426$ ,  $n=22$ ,  $p=0.04114023$ ). Length was related to average temperature variation (Fig. 3:  $r=-0.37760124$ ,  $Z$  score= $-2.54369893$ ,  $n=44$ ,  $p=0.00548430$ ).



**Fig. 1. Correlation between male length and average temperature variation in *Centrobolus* Cook, 1897.**

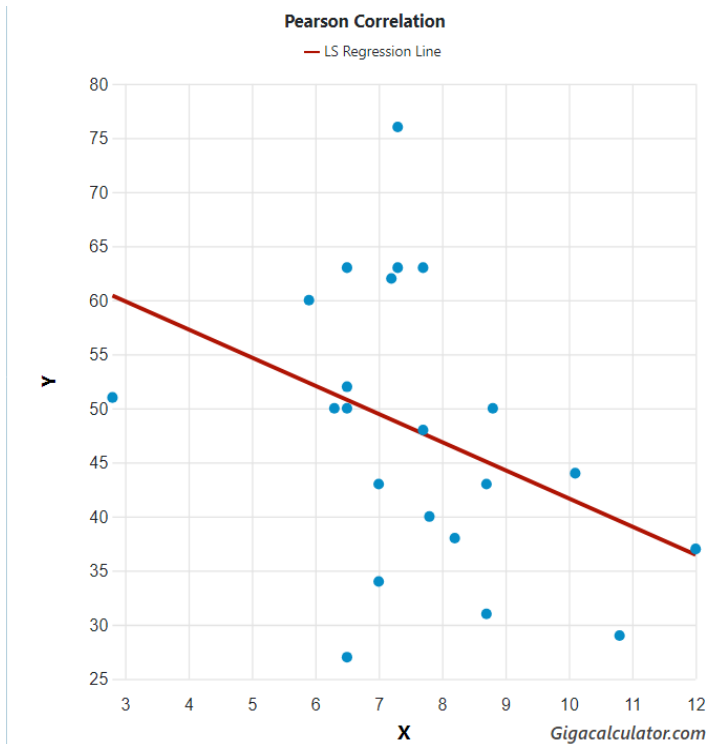


Fig. 2. Correlation between female length and average temperature variation in *Centrobolus* Cook, 1897.

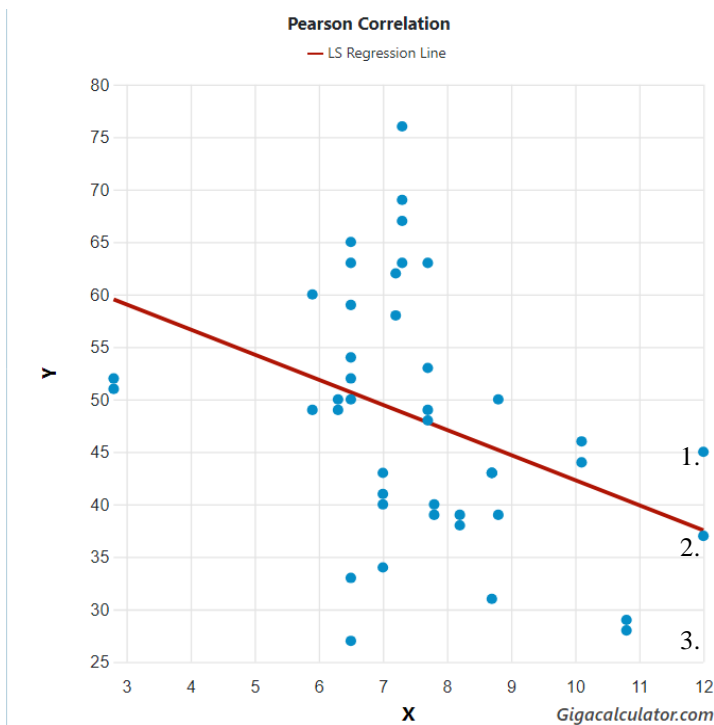


Fig. 3. Correlation between length and average temperature variation in *Centrobolus* Cook, 1897.

The surface area was correlated with average temperature variation (Fig. 4:  $r=-0.34223958$ ,  $Z$  score= $-2.28352720$ ,  $r^2=0.1171$ ,  $n=44$ ,  $p=0.01119963$ ).

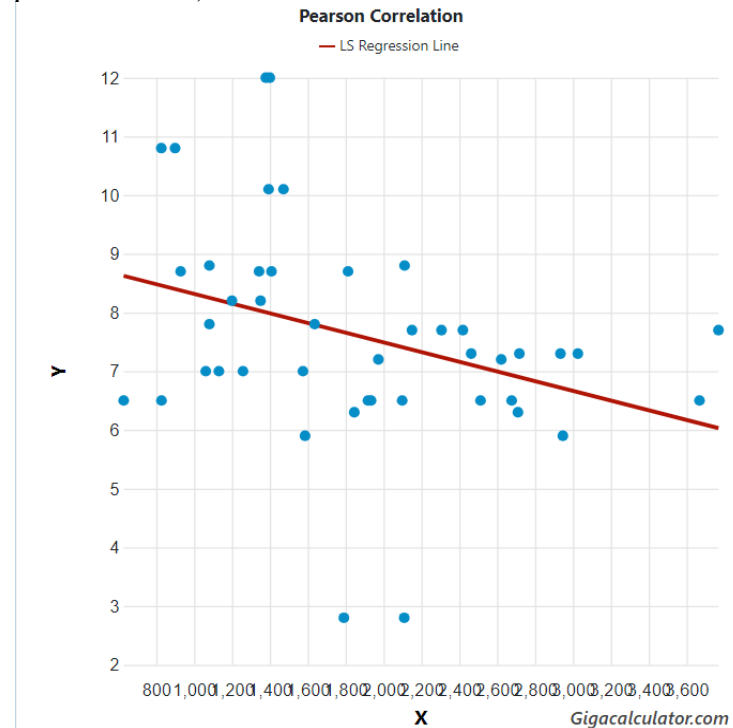


Fig. 4. Correlation between the surface area (X) and average temperature variation (Y) across the range of *Centrobolus* Cook, 1897.

#### IV. DISCUSSION

There is a correlation between length and surface area and average temperature variation in *Centrobolus*.

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- 580.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 581.COOPER, M. I. PRECIPITATION (MAXIMUM) IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 582.COOPER, M. I. HYPOTHETICAL MINIMUM OCEAN WATER TEMPERATURE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 583.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO SPECIES VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 584.COOPER, M. I. HYPOTHETICAL MINIMUM OCEAN WATER TEMPERATURES IS RELATED TO SURFACE AREA IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 585.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 586.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO LOWEST NUMBER OF DAILY HOURS OF SUNSHINE IN A DAY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 587.COOPER, M. I. HYPOTHETICAL MAXIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 588.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 589.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 590.COOPER, M. I. HYPOTHETICAL MINIMUM TEMPERATURE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 591.COOPER, M. I. DURATION (AVERAGE MONTHLY) OF SUNLIGHT IS RELATED TO PRECIPITATION IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 592.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 593.COOPER, M. I. HYPOTHETICAL 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.).
- 594.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 595.COOPER, M. I. POSSIBILITY ABUNDANCE IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 596.COOPER, M. I. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 597.COOPER, M. I. DEFINED ABUNDANCE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 598.COOPER, M. I. POSSIBILITY MATING FREQUENCIES ARE RELATED TO MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 599.COOPER, M. I. HYPOTHETICAL MINIMUM OCEAN WATER TEMPERATURES IS RELATED TO LENGTH, WIDTH, VOLUME AND PRECIPITATION IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 600.COOPER, M. I. DEFINED LENGTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 601.COOPER, M. I. DEFINED WIDTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 602.COOPER, M. I. Hypothetical coldest temperature is related to latitude in forest Red Millipedes Centrobolus Cook, 1897. (IN PREP.).
- 603.COOPER, M. I. PRECIPITATION (MINIMUM) IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897 RELATED TO EIGHT FACTORS. (IN PREP.).
- 604.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 605.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 606.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO HIGHEST DURATION OF SUNSHINE

- IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 607.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 608.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 609.COOPER, M. I. POSSIBLE EIGHT FACTORS RELATED TO AVERAGE TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 610.COOPER, M. I. DURATION OF SUNSHINE IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 611.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 612.COOPER, M. I. PRESSURE (AIR) IS RELATED TO SEVEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 613.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 614.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 615.COOPER, M. I. PRECIPITATION RELATED TO TEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 616.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 617.COOPER, M. I. HYPOTHETICAL MINIMUM TEMPERATURE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 618.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO LOWEST DURATION OF SUNSHINE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 619.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF UMHLANGA ROCKS, SOUTH AFRICA. (IN PREP.).
- 620.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 621.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO LOWEST DURATION OF SUNSHINE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 622.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF LOCHIEL, SOUTH AFRICA. (IN PREP.).
- 623.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 624.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 625.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF MTUNZINI ON THE EAST COAST OF SOUTH AFRICA. (IN PREP.).
- 626.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 627.COOPER, M. I. DURATION (HIGHEST) OF SUNSHINE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 628.COOPER, M. I. POSSIBLE SIX FACTORS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 629.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 630.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 631.COOPER, M. I. PRECIPITATION ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 632.COOPER, M. I. HUMIDITY ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 633.COOPER, M. I. DAYS RAINY ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 634.COOPER, M. I. PORT ST JOHNS (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).



- 635.COOPER, M. I. HOURS (OF AVERAGE SUN) ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 636.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GQEBERHA, SOUTH AFRICA. (IN PREP.).
- 637.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF WINTERTON, SOUTH AFRICA. (IN PREP.).
- 638.COOPER, M. I. HOEDSPRUIT (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 639.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF BOT RIVER, SOUTH AFRICA. (IN PREP.).
- 640.COOPER, M. I. PORT SHEPSTONE (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 641.COOPER, M. I. HLUHLUWE (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 642.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KNYSNA, SOUTH AFRICA. (IN PREP.).
- 643.COOPER, M. I. DURATION OF SUNSHINE (AVERAGE MONTHLY) IS RELATED TO ABUNDANCE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 644.COOPER, M. I. DAYS (MONTH WITH THE LOWEST NUMBER OF RAINY) IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 645.COOPER, M. I. DEFINED AVERAGE TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 646.COOPER, M. I. HYPOTHETICAL MAXIMUM TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 647.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO HOURS OF SUNSHINE THROUGHOUT THE YEAR IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 648.COOPER, M. I. POSSIBLE MINIMUM TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 649.COOPER, M. I. DAILY HOURS OF SUNSHINE (HIGHEST NUMBER) IN A MONTH IS RELATED TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 650.COOPER, M. I. HYPOTHETICAL AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH AND SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 651.COOPER, M. I. POSSIBILITY MATING FREQUENCIES ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 652.COOPER, M. I. PRECIPITATION (MAXIMUM) IS RELATED TO AIR PRESSURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 653.COOPER, M. I. HYPOTHETICAL ALTITUDE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 654.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF VRYHEID, SOUTH AFRICA. (IN PREP.).
- 655.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 656.COOPER, M. I. DAILY HOURS OF SUNSHINE IN A DAY (LOWEST NUMBER) IS RELATED TO AT LEAST EIGHTEEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 657.COOPER, M. I. DIFFERENCES BETWEEN THE SEXES OF A PAIR OF SYMPATRIC FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897 IN CURVED SURFACE AREAS. (IN PREP.).
- 658.COOPER, M. I. HIGHEST NUMBER OF RAINY DAYS (IN A MONTH) IS RELATED TO PRESSURE (AIR) IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 659.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 660.COOPER, M. I. DIFFERENCES IN VOLUMES BETWEEN THE SEXES OF A PAIR OF SYMPATRIC FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 661.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IN A DAY IS RELATED TO ABUNDANCE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 662.COOPER, M. I. PRECIPITATION (MAXIMUM) IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).

- 663.COOPER, M. I. DURATION OF SUNSHINE (LOWEST) IS RELATED TO ABUNDANCE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 664.COOPER, M. I. HYPOTHETICAL OCEAN WATER TEMPERATURES IS RELATED TO ABUNDANCE IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 665.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 666.COOPER, M. I. HIGHEST RELATIVE HUMIDITY, HIGHEST OCEAN WATER TEMPERATURES, MOMENTS OF INERTIA AND STERNITE PROMINENCE IS RELATED TO LOWEST RELATIVE HUMIDITY IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 667.COOPER, M. I. PACHYBOLID LENGTH IS MARGINALLY RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 668.COOPER, M. I. HIGHEST TOTAL HOURS OF SUNSHINE IN A MONTH ARE RELATED TO TWELVE FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 669.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GANS BAY, SOUTH AFRICA. (IN PREP.).
- 670.COOPER, M. I. DAYS (MONTH WITH THE LOWEST NUMBER OF RAINY) IS RELATED TO AT LEAST FOUR FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 671.COOPER, M. I. HOURS OF SUNSHINE THROUGHOUT THE YEAR IS RELATED TO AT LEAST TEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 672.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF RICHARDS BAY, SOUTH AFRICA. (IN PREP.).
- 673.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO AT LEAST FOURTEEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 674.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO AT LEAST FIFTEEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 675.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GORONGOSA, MOZAMBIQUE. (IN PREP.).
- 676.COOPER, M. I. DURATION OF SUNSHINE (LOWEST) IS RELATED TO AT LEAST TEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 677.COOPER, M. I. HIGHEST, LOWEST AND MEAN OCEAN WATER TEMPERATURES IS RELATED TO VOLUME IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 678.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF SCOTTBURGH, SOUTH AFRICA. (IN PREP.).
- 679.COOPER, M. I. DAYS (MONTH WITH THE HIGHEST NUMBER OF RAINY) IS RELATED TO FIVE FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 680.COOPER, M. I. HIGHEST OCEAN WATER TEMPERATURES ARE RELATED TO LATITUDE AND LONGITUDE NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 681.COOPER, M. I. PIETERMARITZBURG (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 682.COOPER, M. I. DURBAN (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 683.COOPER, M. I. HOUT BAY (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 684.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF CAPE TOWN, SOUTH AFRICA. (IN PREP.).
- 685.COOPER, M. I. DE HOOP (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 686.COOPER, M. I. HYPOTHETICAL CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KIRKWOOD, SOUTH AFRICA. (IN PREP.).
- 687.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KEI ROAD, SOUTH AFRICA. (IN PREP.).
- 688.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 689.COOPER, M. I. DURATION (HIGHEST) OF SUNSHINE IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 690.COOPER, M. I. POSSIBLE SEVEN FACTORS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 691.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED

- MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 692.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 693.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 694.COOPER, M. I. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 695.COOPER, M. I. TEMPERATURE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 696.COOPER, M. I. TEMPERATURE IS RELATED TO LATITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 697.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 698.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 699.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 700.COOPER, M. I. AIR PRESSURE IS marginally RELATED TO TEMPERATURE IN SOUTHERN AFRICAN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 701.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 702.COOPER, M. I. LATITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 703.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 704.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SPIROSTREPTIDAE POCOCK, 1894
- 705.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS marginally RELATED TO AIR PRESSURE IN SOUTHERN AFRICAN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 706.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN SPIROSTREPTIDAE POCOCK, 1894. (IN PREP.).
- 707.COOPER, M. I. AIR PRESSURE IS RELATED TO ELEVATION IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 708.COOPER, M. I. AIR PRESSURE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 709.COOPER, M. I. ALTITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 710.COOPER, M. I. LATITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 711.COOPER, M. I. LATITUDE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 712.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 713.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 714.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 715.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN PENCILLATA LATREILLE, 1831. (IN PREP.).
- 716.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN PENCILLATA LATREILLE, 1831. (IN PREP.).
- 717.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN PENCILLATA LATREILLE, 1831. (IN PREP.).
- 718.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS IN SOUTHERN AFRICAN PENCILLATA LATREILLE, 1831. (IN PREP.).
- 719.COOPER, M. I. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN PENCILLATA LATREILLE, 1831. (IN PREP.).
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- 723.COOPER, M. I. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 724.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 725.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 726.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).

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- 728.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
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- 730.COOPER, M. I. AIR PRESSURE IS RELATED TO LATITUDE IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 731.COOPER, M. I. ALTITUDE IS RELATED TO LATITUDE IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
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- 737.COOPER, M. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 738.COOPER, M. TEMPERATURE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
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#### APPENDIX 1. Surface area in *Centrobolus* Cook, 1897.

1080.71

2462.87

1343.03

1130.97

1790.71

1934.22

1585.81

2717.29

1258.21

1408.63

2306.18

827.87

1080.71

2098.58

1972.92

1845.75

2150.36

1393.36

826.93

1199.84

1399.58

2676.64

2111.15

3026.01

928.91

1061.61	2.8
2109.33	6.5
2512.27	5.9
2946.81	7.3
2934.19	7.0
1574.82	8.7
1812.76	7.7
3768.40	6.5
628.26	7.8
1636.71	6.5
1917.94	7.2
2621.60	6.3
2709.62	7.7
2419.03	10.1
1471.77	10.8
899.69	8.2
1350.89	12.0
1378.78	6.5
3668.38	

**APPENDIX 2.** Average temperature variation (degrees Celsius) in *Centrobolus* Cook, 1897.

8.8	39
7.3	69
8.7	43
7.0	41
2.8	52
6.5	54
5.9	49
7.3	67
7.0	40
8.7	43
7.7	53
6.5	33
7.8	39
6.5	59
7.2	58
6.3	49
7.7	49
10.1	46
10.8	28
8.2	39
12.0	45
6.5	65
8.8	
7.3	
8.7	
7.0	

**APPENDIX 3.** Length (mm) in male *Centrobolus* Cook, 1897.

39
69
43
41
52
54
49
67
40
43
53
33
39
59
58
49
49
46
28
39
45
65

**APPENDIX 4.** Length (mm) in female *Centrobolus* Cook, 1897.

50
76
31

34  
51  
52  
60  
63  
43  
43  
63  
27  
40  
50  
62  
50  
48  
44  
29  
38  
37  
63