

# DEFINED ABUNDANCE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES *CENTROBOLUS COOK, 1897*

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**Abstract-** Minimum ocean water temperature was tested for a correlation with abundance in red millipedes *Centrobolus*. 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 abundances (Fig. 1:  $r=0.63046242$ ,  $Z$  score= $1.65957221$ ,  $n=8$ ,  $p=0.04850025$ ).

**Keywords:** minimum, Red Millipedes, temperature.

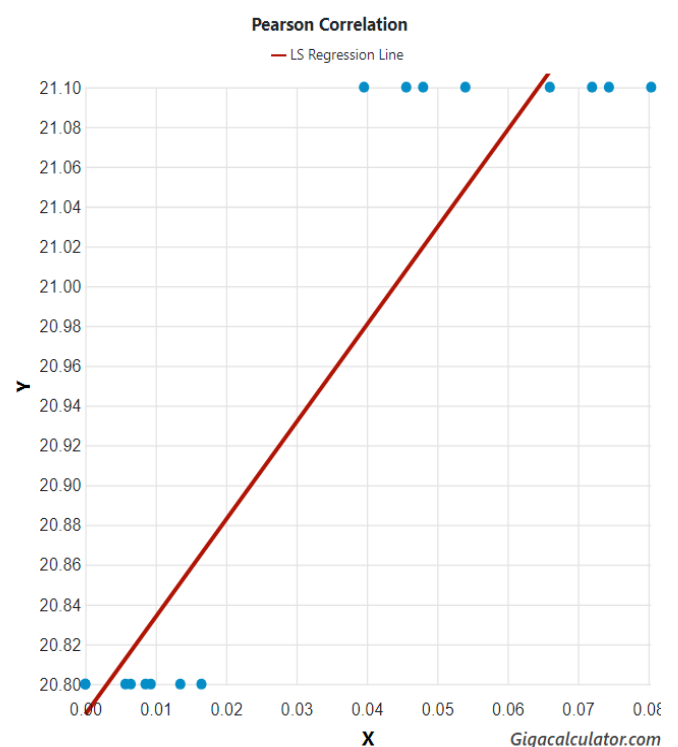
## I. INTRODUCTION

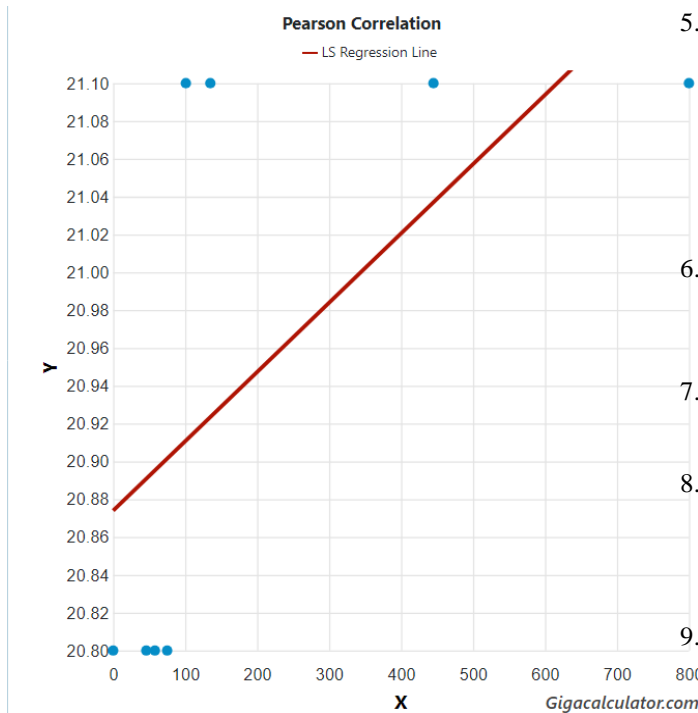
Red millipedes are found in the southern African subregion with northern limits on the east coast being about  $-17^\circ$  latitude S and southern limits being  $-35^\circ$  latitude S. They are well represented in the littoral forests of the eastern half of the subcontinent [1-901]. It consists of 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, minimum ocean water temperature is correlated with abundances 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 ( $\text{mm}^2$ ) were calculated based on the equation Surface Area (Curved) =  $2 \times \pi \times \text{Radius} \times \text{Height}$ . A correlation between minimum ocean water temperature and abundances were generated at <https://www.socscistatistics.com/tests/pearson/default2.aspx> (Appendix 1&2).

## III. RESULTS





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

#### IV. DISCUSSION

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

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- 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.).
- 720.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 721.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 722.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 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.).
- 727.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 728.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 729.COOPER, M. I. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 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.).
- 732.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN SIPHONOPHORIDA NEWPORT, 1844 AND POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 733.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN SIPHONOPHORIDA NEWPORT, 1844 AND POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 734.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN SIPHONOPHORIDA NEWPORT, 1844 AND POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 735.COOPER, M. I. genotypic. (IN PREP.).
- 736.COOPER, M. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 737.COOPER, M. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
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**APPENDIX 1.** 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