

# LATITUDINAL SPECIES RICHNESS CORRELATION IN SOUTHERN AFRICAN PACHYBOLIDAE COOK, 1897

M. COOPER  
City of Johannesburg.

**Abstract**-Latitudinal species richness in southern African Pachybolidae was calculated. Latitude was related to species richness in southern African Pachybolidae ( $r = -0.45226955$ ,  $Z \text{ score} = -3.12184175$ ,  $N=44$ ,  $P=0.00089868$ ). Species richness was shown to peak between  $-28$  to  $-30$  degrees South latitude.

**keywords:** African, latitude, Pachybolidae, southern, species.

## I. INTRODUCTION

Pachybolidae is a family of millipedes. Here, latitudinal species richness is re-calculated in southern African Pachybolidae.

## II. MATERIALS AND METHODS

Species richness and latitude coordinates were obtained for 44 species of southern African Pachybolidae from a Checklist of Southern African Millipedes. These were correlated using the Gigacalculator.

## III. RESULTS

Latitude was related to species richness in southern African Pachybolidae (Figure 1:  $r = -0.45226955$ ,  $Z \text{ score} = -3.12184175$ ,  $N=44$ ,  $P=0.00089868$ ). Latitudinal species richness is represented as a frequency histogram (Figure 2).

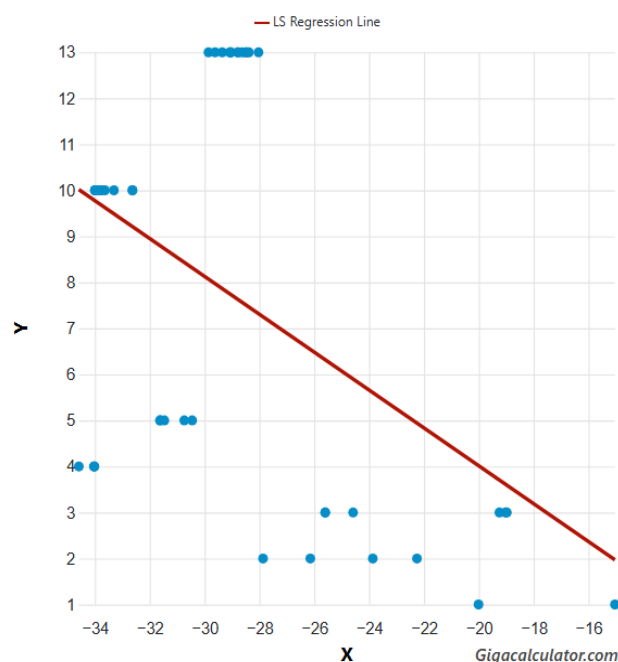


Figure 1. Latitude correlated to species richness in southern African Pachybolidae Cook, 1897.

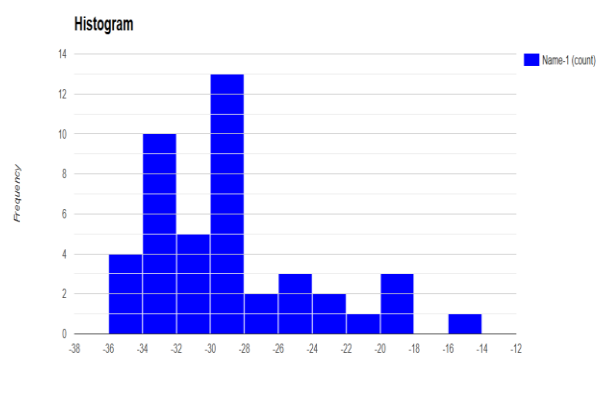


Figure 2. Latitudinal species richness in southern African Pachybolidae Cook, 1897.

## IV. DISCUSSION

Latitude is negatively related to species richness in southern African Pachybolidae. Species richness is shown to peak between -28 to -30 degrees South latitude.

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- 595.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 596.COOPER, M. I. POSSIBILITY ABUNDANCE IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 597.COOPER, M. I. HIGHEST RELATIVE HUMIDITY IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 598.COOPER, M. I. DEFINED ABUNDANCE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 599.COOPER, M. I. POSSIBILITY MATING FREQUENCIES ARE RELATED TO MAXIMUM OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 600.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.).

- 601.COOPER, M. I. DEFINED LENGTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 602.COOPER, M. I. DEFINED WIDTH IS RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 603.COOPER, M. I. Hypothetical coldest temperature is related to latitude in forest Red Millipedes Centrobolus Cook, 1897. (IN PREP.).
- 604.COOPER, M. I. PRECIPITATION (MINIMUM) IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897 RELATED TO EIGHT FACTORS. (IN PREP.).
- 605.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 606.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 607.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO HIGHEST DURATION OF SUNSHINE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 608.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 609.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO VOLUME IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 610.COOPER, M. I. POSSIBLE EIGHT FACTORS RELATED TO AVERAGE TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 611.COOPER, M. I. DURATION OF SUNSHINE IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 612.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 613.COOPER, M. I. PRESSURE (AIR) IS RELATED TO SEVEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 614.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 615.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 616.COOPER, M. I. PRECIPITATION RELATED TO TEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 617.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 618.COOPER, M. I. HYPOTHETICAL MINIMUM TEMPERATURE IS RELATED TO SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 619.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO LOWEST DURATION OF SUNSHINE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 620.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF UMHLANGA ROCKS, SOUTH AFRICA. (IN PREP.).
- 621.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 622.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.).
- 623.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF LOCHIEL, SOUTH AFRICA. (IN PREP.).
- 624.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 625.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MEAN OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 626.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF MTUNZINI ON THE EAST COAST OF SOUTH AFRICA. (IN PREP.).

- 627.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LENGTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 628.COOPER, M. I. DURATION (HIGHEST) OF SUNSHINE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 629.COOPER, M. I. POSSIBLE SIX FACTORS RELATED TO MAXIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 630.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MOMENTS OF INERTIA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 631.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO MINIMUM OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 632.COOPER, M. I. PRECIPITATION ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 633.COOPER, M. I. HUMIDITY ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 634.COOPER, M. I. DAYS RAINY ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 635.COOPER, M. I. PORT ST JOHNS (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 636.COOPER, M. I. HOURS (OF AVERAGE SUN) ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 637.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GQEBERHA, SOUTH AFRICA. (IN PREP.).
- 638.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF WINTERTON, SOUTH AFRICA. (IN PREP.).
- 639.COOPER, M. I. HOEDSPRUIT (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 640.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF BOT RIVER, SOUTH AFRICA. (IN PREP.).
- 641.COOPER, M. I. PORT SHEPSTONE (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 642.COOPER, M. I. HLUHLUWE (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 643.COOPER, M. I. DEFINED CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KNYSNA, SOUTH AFRICA. (IN PREP.).
- 644.COOPER, M. I. DURATION OF SUNSHINE (AVERAGE MONTHLY) IS RELATED TO ABUNDANCE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 645.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.).
- 646.COOPER, M. I. DEFINED AVERAGE TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 647.COOPER, M. I. HYPOTHETICAL MAXIMUM TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 648.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.).
- 649.COOPER, M. I. POSSIBLE MINIMUM TEMPERATURE ACROSS THE DISTRIBUTION OF CENTROBOLUS IN SOUTHERN AFRICA. (IN PREP.).
- 650.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.).
- 651.COOPER, M. I. HYPOTHETICAL AVERAGE TEMPERATURE VARIATION IS RELATED TO LENGTH AND SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 652.COOPER, M. I. POSSIBILITY MATING FREQUENCIES ARE RELATED TO MEAN OCEAN WATER TEMPERATURES IN COASTAL



- FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 653.COOPER, M. I. PRECIPITATION (MAXIMUM) IS RELATED TO AIR PRESSURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 654.COOPER, M. I. HYPOTHETICAL ALTITUDE IS RELATED TO LATITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 655.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF VRYHEID, SOUTH AFRICA. (IN PREP.).
- 656.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO MEAN OCEAN WATER TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 657.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.).
- 658.COOPER, M. I. DIFFERENCES BETWEEN THE SEXES OF A PAIR OF SYMPATRIC FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897 IN CURVED SURFACE AREAS. (IN PREP.).
- 659.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.).
- 660.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO HIGHEST OCEAN WATER TEMPERATURES NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 661.COOPER, M. I. DIFFERENCES IN VOLUMES BETWEEN THE SEXES OF A PAIR OF SYMPATRIC FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 662.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IN A DAY IS RELATED TO ABUNDANCE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 663.COOPER, M. I. PRECIPITATION (MAXIMUM) IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 664.COOPER, M. I. DURATION OF SUNSHINE (LOWEST) IS RELATED TO ABUNDANCE IN A MONTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 665.COOPER, M. I. HYPOTHETICAL OCEAN WATER TEMPERATURES IS RELATED TO ABUNDANCE IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 666.COOPER, M. I. PRECIPITATION (MINIMUM) IS RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 667.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.).
- 668.COOPER, M. I. PACHYBOLID LENGTH IS marginally RELATED TO ALTITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 669.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.).
- 670.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GANS BAY, SOUTH AFRICA. (IN PREP.).
- 671.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.).
- 672.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.).
- 673.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF RICHARDS BAY, SOUTH AFRICA. (IN PREP.).
- 674.COOPER, M. I. DURATION OF SUNLIGHT (AVERAGE MONTHLY) IS RELATED TO AT LEAST FOURTEEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 675.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO AT LEAST FIFTEEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).

- 676.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF GORONGOSA, MOZAMBIQUE. (IN PREP.).
- 677.COOPER, M. I. DURATION OF SUNSHINE (LOWEST) IS RELATED TO AT LEAST TEN FACTORS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 678.COOPER, M. I. HIGHEST, LOWEST AND MEAN OCEAN WATER TEMPERATURES IS RELATED TO VOLUME IN COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 679.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF SCOTTBURGH, SOUTH AFRICA. (IN PREP.).
- 680.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.).
- 681.COOPER, M. I. HIGHEST OCEAN WATER TEMPERATURES ARE RELATED TO LATITUDE AND LONGITUDE NEAR COASTAL FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 682.COOPER, M. I. PIETERMARITZBURG (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 683.COOPER, M. I. DURBAN (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 684.COOPER, M. I. HOUT BAY (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 685.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF CAPE TOWN, SOUTH AFRICA. (IN PREP.).
- 686.COOPER, M. I. DE HOOP (SOUTH AFRICA) CLIMATE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS. (IN PREP.).
- 687.COOPER, M. I. HYPOTHETICAL CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KIRKWOOD, SOUTH AFRICA. (IN PREP.).
- 688.COOPER, M. I. POSSIBLE CORRELATION COEFFICIENT MATRIX FOR SEVEN FACTORS IN THE CLIMATE OF KEI ROAD, SOUTH AFRICA. (IN PREP.).
- 689.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO MASS IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 690.COOPER, M. I. DURATION (HIGHEST) OF SUNSHINE IS RELATED TO CURVED SURFACE AREA IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 691.COOPER, M. I. POSSIBLE SEVEN FACTORS RELATED TO MINIMUM TEMPERATURE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 692.COOPER, M. I. HIGHEST DURATION OF SUNSHINE IS RELATED TO LONGITUDE IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 693.COOPER, M. I. DURATION (LOWEST) OF SUNSHINE IS RELATED TO WIDTH IN FOREST RED MILLIPEDES CENTROBOLUS COOK, 1897. (IN PREP.).
- 694.COOPER, M. I. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 695.COOPER, M. I. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 696.COOPER, M. I. TEMPERATURE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 697.COOPER, M. I. TEMPERATURE IS RELATED TO LATITUDE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 698.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 699.COOPER, M. I. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 700.COOPER, M. I. LONGITUDINAL SPECIES RICHNESS IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN VAALOGONPIDAE VERHOEFF, 1940A. (IN PREP.).
- 701.COOPER, M. I. AIR PRESSURE IS marginally RELATED TO TEMPERATURE IN SOUTHERN

- AFRICAN SPIROSTREPTIDAE POCK, 1894.  
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- 702.COOPER, M. I. LATITUDE IS RELATED TO  
LONGITUDE IN SOUTHERN AFRICAN  
SPIROSTREPTIDAE POCK, 1894. (IN PREP.).
- 703.COOPER, M. I. LATITUDE IS RELATED TO  
TEMPERATURE IN SOUTHERN AFRICAN  
SPIROSTREPTIDAE POCK, 1894. (IN PREP.).
- 704.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IN SPIROSTREPTIDAE POCK,  
1894. (IN PREP.).
- 705.COOPER, M. I. LONGITUDINAL SPECIES  
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- 706.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IS marginally RELATED TO AIR  
PRESSURE IN SOUTHERN AFRICAN  
SPIROSTREPTIDAE POCK, 1894. (IN PREP.).
- 707.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IS RELATED TO TEMPERATURE IN  
SOUTHERN AFRICAN SPIROSTREPTIDAE  
POCK, 1894. (IN PREP.).
- 708.COOPER, M. I. AIR PRESSURE IS RELATED TO  
ELEVATION IN SOUTHERN AFRICAN  
ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 709.COOPER, M. I. AIR PRESSURE IS RELATED TO  
TEMPERATURE IN SOUTHERN AFRICAN  
ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 710.COOPER, M. I. ALTITUDE IS RELATED TO  
TEMPERATURE IN SOUTHERN AFRICAN  
ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 711.COOPER, M. I. LATITUDE IS RELATED TO  
TEMPERATURE IN SOUTHERN AFRICAN  
ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 712.COOPER, M. I. LATITUDE IS RELATED TO  
ALTITUDE IN SOUTHERN AFRICAN  
ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 713.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IN SOUTHERN AFRICAN  
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- 714.COOPER, M. I. LONGITUDINAL SPECIES  
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ODONTOPYGIDAE ATTEMS, 1909C. (IN PREP.).
- 715.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IS RELATED TO LONGITUDINAL  
SPECIES RICHNESS IN SOUTHERN AFRICAN  
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- 716.COOPER, M. I. LATITUDE IS RELATED TO  
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PENCILLATA LATREILLE, 1831. (IN PREP.).
- 717.COOPER, M. I. LATITUDINAL SPECIES  
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- 718.COOPER, M. I. LONGITUDINAL SPECIES  
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- 719.COOPER, M. I. LATITUDINAL SPECIES  
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- 720.COOPER, M. I. AIR PRESSURE IS RELATED TO  
ALTITUDE IN SOUTHERN AFRICAN  
PENCILLATA LATREILLE, 1831. (IN PREP.).
- 721.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IN SOUTHERN AFRICAN  
POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 722.COOPER, M. I. LONGITUDINAL SPECIES  
RICHNESS IN SOUTHERN AFRICAN  
POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 723.COOPER, M. I. LATITUDINAL SPECIES  
RICHNESS IS RELATED TO LONGITUDINAL  
SPECIES RICHNESS IN SOUTHERN AFRICAN  
POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 724.COOPER, M. I. AIR PRESSURE IS RELATED TO  
ALTITUDE IN SOUTHERN AFRICAN  
POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 725.COOPER, M. I. LATITUDE IS RELATED TO  
LONGITUDE IN SOUTHERN AFRICAN  
POLYXENIDAE LUCAS, 1840. (IN PREP.).
- 726.COOPER, M. I. LATITUDE IS RELATED TO  
LONGITUDE IN SOUTHERN AFRICAN  
POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 727.COOPER, M. I. LATITUDINAL SPECIES  
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- 728.COOPER, M. I. LONGITUDINAL SPECIES  
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- 729.COOPER, M. I. LATITUDINAL SPECIES  
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- 730.COOPER, M. I. AIR PRESSURE IS RELATED TO  
ALTITUDE IN SOUTHERN AFRICAN  
POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 731.COOPER, M. I. AIR PRESSURE IS RELATED TO  
LATITUDE IN SOUTHERN AFRICAN  
POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 732.COOPER, M. I. ALTITUDE IS RELATED TO  
LATITUDE IN SOUTHERN AFRICAN  
POLYZONIIDA GERVAIS, 1844. (IN PREP.).
- 733.COOPER, M. I. LATITUDE IS RELATED TO  
LONGITUDE IN SOUTHERN AFRICAN  
SIPHONOPHORA NEWPORT, 1844 AND  
POLYZONIIDA GERVAIS, 1844. (IN PREP.).

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- 737.COOPER, M. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 738.COOPER, M. AIR PRESSURE IS RELATED TO ALTITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 739.COOPER, M. TEMPERATURE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 740.COOPER, M. TEMPERATURE IS RELATED TO LATITUDE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 741.COOPER, M. LONGITUDINAL SPECIES RICHNESS IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 742.COOPER, M. LONGITUDINAL SPECIES RICHNESS IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN *PHYGOXEROTES* VERHOEFF, 1939A. (IN PREP.).
- 743.COOPER, M. LATITUDE IS RELATED TO LONGITUDE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
- 744.COOPER, M. LONGITUDE IS RELATED TO AIR PRESSURE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
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- 749.COOPER, M. AIR PRESSURE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
- 750.COOPER, M. LATITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
- 751.COOPER, M. ALTITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
- 752.COOPER, M. LONGITUDE IS RELATED TO TEMPERATURE IN SOUTHERN AFRICAN *STENJULOMORPHA* SCHUBART, 1966. (IN PREP.).
- 753.COOPER, M. ALTITUDE IS RELATED TO AIR PRESSURE IN *ULODESMUS* COOK, 1899B. (IN PREP.).
- 754.COOPER, M. ALTITUDE IS RELATED TO TEMPERATURE IN *ULODESMUS* COOK, 1899B. (IN PREP.).
- 755.COOPER, M. LATITUDINAL SPECIES RICHNESS IN *ANTIPHONUS* ATTEMS, 1901. (IN PREP.).
- 756.COOPER, M. LATITUDE IS RELATED TO TEMPERATURE IN *ANTIPHONUS* ATTEMS, 1901. (IN PREP.).
- 757.COOPER, M. ALTITUDE IS RELATED TO LATITUDINAL SPECIES RICHNESS IN *ANTIPHONUS* ATTEMS, 1901. (IN PREP.).
- 758.COOPER, M. LATITUDE IS RELATED TO ALTITUDE IN *ANTIPHONUS* ATTEMS, 1901. (IN PREP.).
- 759.COOPER, M. AIR PRESSURE IS RELATED TO TEMPERATURE, ALTITUDE, LATITUDE, AND LATITUDINAL SPECIES RICHNESS IN *ANTIPHONUS* ATTEMS, 1901. (IN PREP.).
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- 761.COOPER, M. ALTITUDE IS RELATED TO AIR PRESSURE IN *PODOCHRESIMUS* ATTEMS, 1926. (IN PREP.).
- 762.COOPER, M. LATITUDINAL SPECIES RICHNESS IN *PODOCHRESIMUS* ATTEMS, 1926. (IN PREP.).
- 763.COOPER, M. LONGITUDINAL SPECIES RICHNESS IN *PODOCHRESIMUS* ATTEMS, 1926. (IN PREP.).
- 764.COOPER, M. LONGITUDINAL SPECIES RICHNESS IN *PODOCHRESIMUS* ATTEMS, 1926. (IN PREP.).



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- 766.COOPER, M. LATITUDE IS RELATED TO SPECIES RICHNESS IN *ALLAWRENCIUS* VERHOEFF, 1939A. (IN PREP.).
- 767.COOPER, M. LATITUDE IS RELATED TO LONGITUDE IN *ALLAWRENCIUS* VERHOEFF, 1939A. (IN PREP.).
- 768.COOPER, M. LATITUDINAL SPECIES RICHNESS IS RELATED TO LONGITUDE IN *ALLAWRENCIUS* VERHOEFF, 1939A. (IN PREP.).
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- 770.COOPER, M. LONGITUDE IS AIR PRESSURE IN *JULOMORPHA* PORAT, 1872. (IN PREP.).
- 771.COOPER, M. LATITUDINAL SPECIES RICHNESS IN *JULOMORPHA* PORAT, 1872. (IN PREP.).
- 772.COOPER, M. LONGITUDINAL SPECIES RICHNESS IN *JULOMORPHA* PORAT, 1872. (IN PREP.).
- 773.COOPER, M. LONGITUDINAL SPECIES RICHNESS IS RELATED TO LATITUDINAL SPECIES RICHNESS IN *JULOMORPHA* PORAT, 1872. (IN PREP.).
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- 789.COOPER, M. LATITUDE IS RELATED TO ALTITUDE IN *CAMARICOPROCTUS* ATTEMPS, 1926. (IN PREP.).
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**Appendix 1.** Latitude followed with species richness in southern African Pachybolidae Cook, 1897.

-26.1439, 2  
-33.3042, 10  
-30.4500, 5  
-34.0000, 10  
-28.6225, 13  
-28.4793, 13  
-27.8667, 2  
-34.0333, 4  
-34.5833, 4  
-28.4793, 13  
-28.7830, 13  
-18.9764, 3  
-28.3833, 13  
-29.8579, 13  
-29.6168, 13  
-33.8333, 10



-23.8650, 2  
-33.9611, 10  
-34.0232, 4  
-34.0000, 10  
-34.0168, 4  
-32.6292, 10  
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-25.6000, 3  
-29.3561, 13  
-28.0333, 13  
-33.7674, 10  
-33.6333, 10  
-32.6292, 10  
-29.0460, 13  
-31.4648, 5  
-25.6000, 3  
-29.0460, 13  
-31.6229, 5  
-33.9212, 10  
-24.5833, 3  
-29.0755, 13  
-20.0092, 1  
-31.6229, 5  
-19.2500, 3  
-15.0342, 1  
-19.0275, 3  
-22.2539, 2