DALODESMIDAE COOK, 1896A LONGITUDE IS RELATED TO SPECIES RICHNESS

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***Abstract*- Longitude was tested for a correlation with species richness in the southern African millipede family Dalodesmidae. The longitude was correlated with species richness (Pearson's r=0.52231543, Z score=6.18756518, n=117, p=0) (= 2.86489361 · x + -38.54889605).**

***Keywords*: Dalodesmidae, longitude, Millipedes.**

I. INTRODUCTION

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 [1-448]. They occur in all the forests of the coastal belt from the Cape Peninsula to Beira in Mocambique [447]. Dalodesmidae is predicted to have female-biased sexual size dimorphism [44].
Here, the longitude was tested for a correlation with species richness in Dalodesmidae Cook, 1896a.

II. MATERIALS AND METHODS

Longitude co-ordinates were calculated for 117 species of Dalodesmidae Cook, 1896a from type localities given in the Checklist of Southern African millipedes. A correlation between longitude with species richness was generated at https://www.socscistatistics.com/tests/pearson/default2.aspx (Appendix 1).

III. RESULTS

The longitude was correlated with species richness (Fig. 1: Pearson's r=0.52231543, Z score=6.18756518, n=117, p=0) (= 2.86489361 · x + -38.54889605).

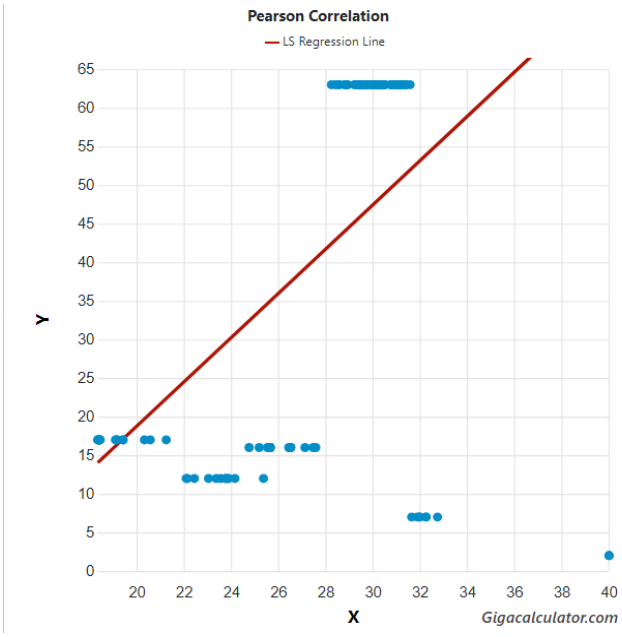

Fig. 1. Correlation between longitude (x) and species richness (y) across therange of Dalodesmidae Cook, 1896a.

IV. DISCUSSION

There is a correlation between longitude with species richness in southern African Dalodesmidae.

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APPENDIX 1. The longitude followed with species richness in Dalodesmidae Cook, 1896a.

29.9833, 63
31.0617, 63
28.5667, 63
29.4645, 63
29.7153, 63
27.5908, 16
27.4871, 16
25.1970, 16
29.5500, 63
29.7637, 63
28.9276, 63
25.6590, 16
20.3333, 17
30.0670, 63
22.1058, 12
29.5500, 63
30.2500, 63
40.0250, 2
29.5203, 63
25.6590, 16
22.4499, 12
29.7637, 63
30.5264, 63
30.5130, 63
30.8302, 63
25.3788, 12
26.5270, 16
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31.1333, 63
31.1333, 63
26.5270, 16
25.5500, 16
25.6590, 16
28.6000, 63
31.4000, 63

31.0161, 63
29.4645, 63
25.6590, 16
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26.4500, 16
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23.5567, 12
22.1536, 12
31.9965, 7
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29.4645, 63
20.5803, 17
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24.7707, 16
28.2590, 63
30.2805, 63
29.4645, 63
23.0485, 12
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31.3991, 63
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29.9067, 63
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19.1667, 17
18.41, 17
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23.8864, 12
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30.28803, 63
29.33126, 63
30.39278, 63
30.2306, 63
29.91334, 63
25.61494, 16
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18.41667, 17
23.3716, 12
18.43585, 17.