

Appendix S4 - Kruskal-Wallis and Wilcoxon-Mann-Whitney

A review of the glacial environment arthropod trace fossils *Umfolozia* and *Warvichnium* with the description of new ichnotaxa

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Results of Kruskal-Wallis and Wilcoxon-Mann-Whitney statistical tests to the trace fossils of this paper

ABBREVIATIONS:

Ur = *Umfolozia riojana* nom. rev. emend.;

Us = *Umfolozia sinuosa*;

Ut = *Umfolozia terere* isp. nov.;

Wa = *Warvichnium ulbrichi*;

Is = *Irichnus saltatorius*;

Ip = *Irichnus paripinnatus* isp. nov.

SIGNIFICANCE SYMBOLS/COLORS:

<0.0001 ‘****’ or green;

≤0.001 ‘***’ or green;

≤0.01 ‘**’ or green;

≤0.05 ‘.’ or green;

≥0.05 ‘ ’ or red

Umfolozia Kruskal-Wallis:

chi-squared = 55.338

df = 2

p-value = 9.627e-13***

Warvichnium+Irichnus Kruskal-Wallis:

chi-squared = 15.416

df = 2

p-value = 0.000449**

Table S7. *Umfolozia* divided by morphological feature

TWEW	Ur	Us	TRW	Ur	Us	TAM	Ur	Us
Us	3.9e-05	-	Us	0.00097	-	Us	0.3284	-
Ut	1.1e-09	1.1e-06	Ut	5.6e-06	9.5e-08	Ut	0.0041	5.2e-07
IW	Ur	Us	ESL	Ur	Us	ETRW	Ur	Us
Us	6.4e-06	-	Us	5.8e-05	-	Us	0.0038	-
Ut	1.1e-09	0.00021	Ut	1.1e-06	7.6e-13	Ut	1.6e-06	9.1e-11
REIW	Ur	Us	REELS	Ur	Us			
Us	0.022	-	Us	0.08	-			
Ut	0.555	0.014	Ut	2.1e-09	1.4e-11			

Table S8. *Warvichnium+Iríchnus* divided by morphological feature

TWEW	Is	Ip
Ip	0.00013	-
Wu	1e-06	0.00016

TRW	Is	Ip
Ip	0.00029	-
Wu	0.00029	0.43056

SL	Is	Ip
Ip	0.72501	-
Wu	0.00069	0.00699

TAM	Is	Ip
Ip	0.00026	-
Wu	0.00041	1.00000

IW	Is	Ip
Ip	0.94391	-
Wu	0.00012	0.00023

REIW	Is	Ip
Ip	0.00544	-
Wu	0.15550	0.00093

RESL	Is	Ip
Ip	0.038	-
Wu	4.6e-05	0.038