

Additional Results Tables and Plots

Normal Probability and Residual Versus Fitted Values Plots

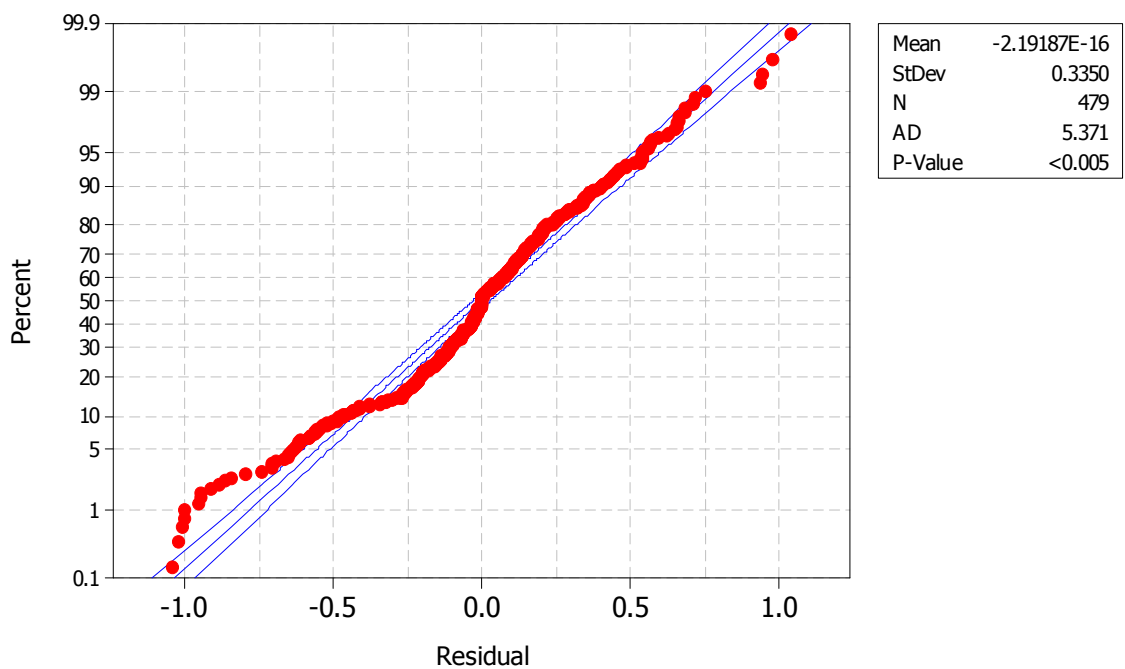


Figure A. 2 Normal probability plot (95% confidence intervals) for Total Frame-building Bryozoa.

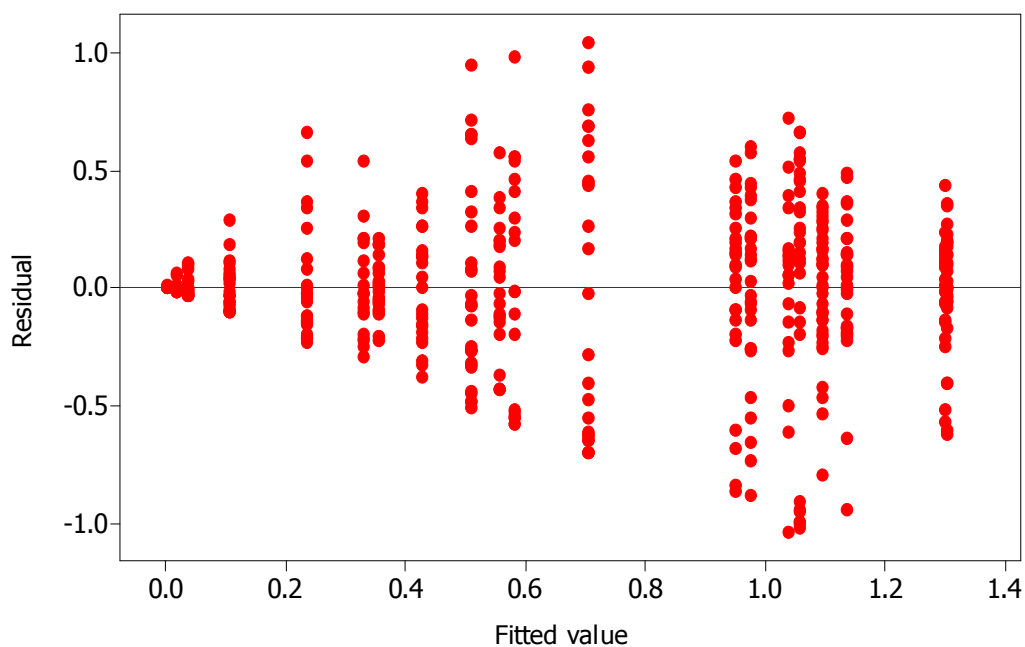


Figure A. 3 Residual versus fitted values plot for Total Frame-building Bryozoa.

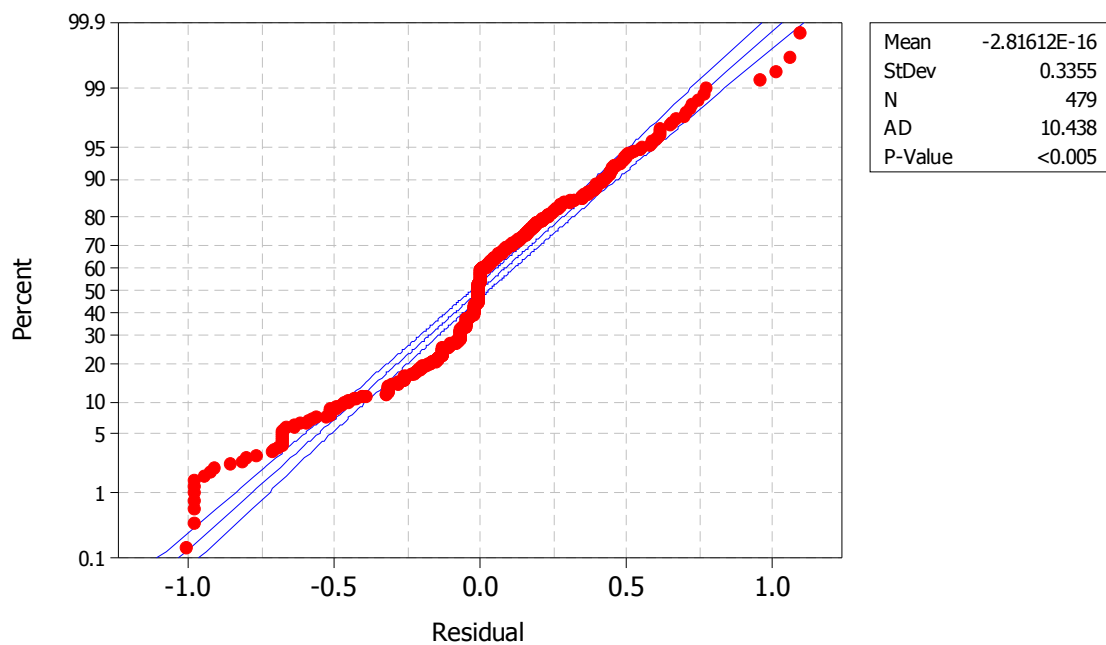


Figure A. 4 Normal probability plot (95% confidence intervals) for *Cinctipora elegans*.

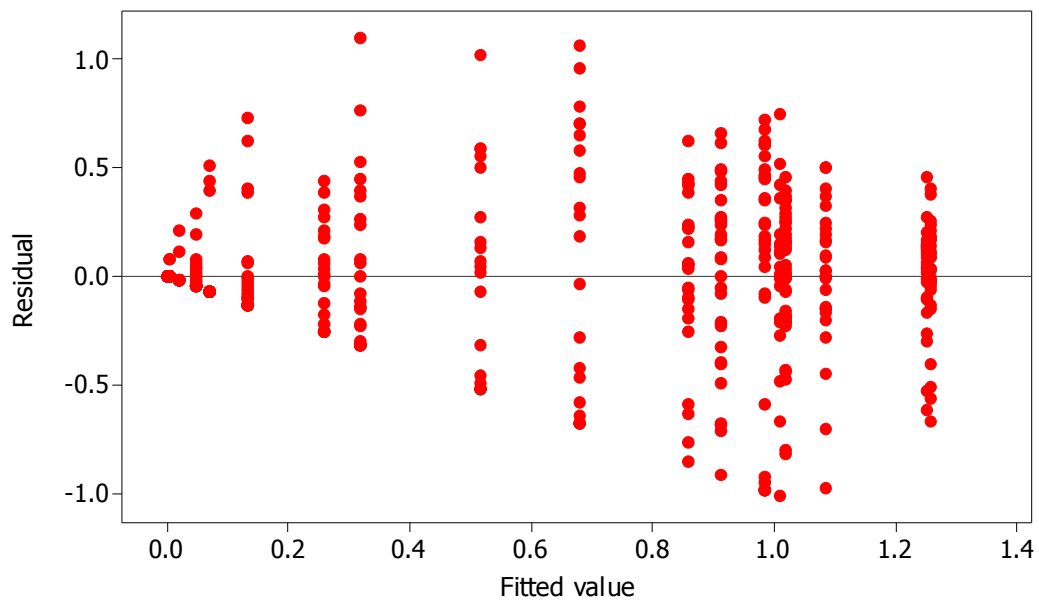


Figure A. 5 Residual versus fitted values plot for *Cinctipora elegans*.

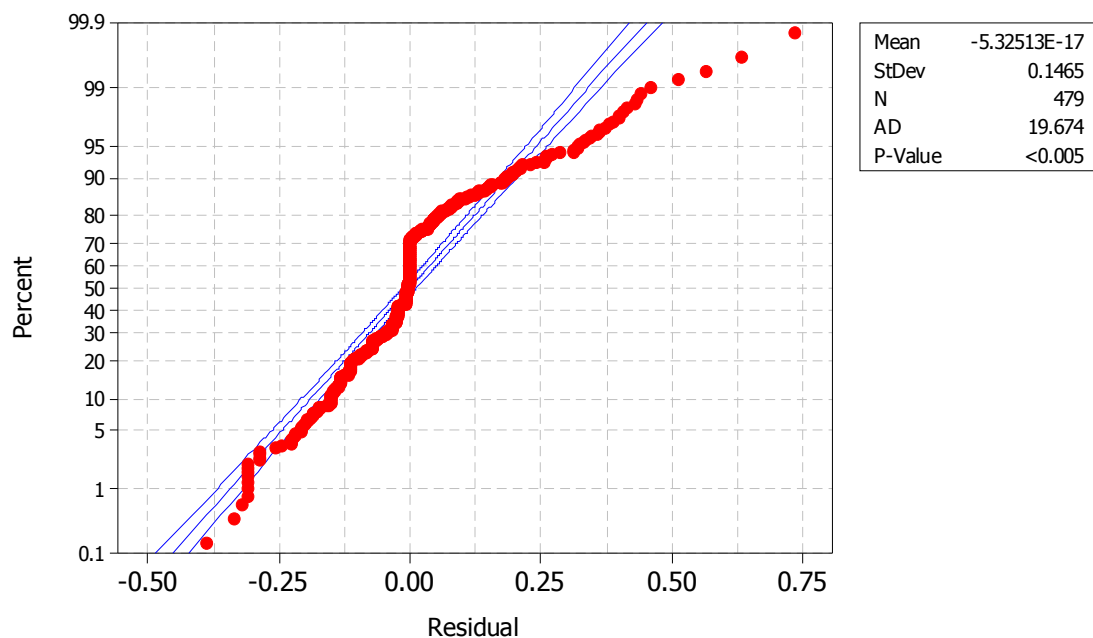


Figure A. 6 Normal probability plot (95% confidence intervals) for *Hornera robusta*.

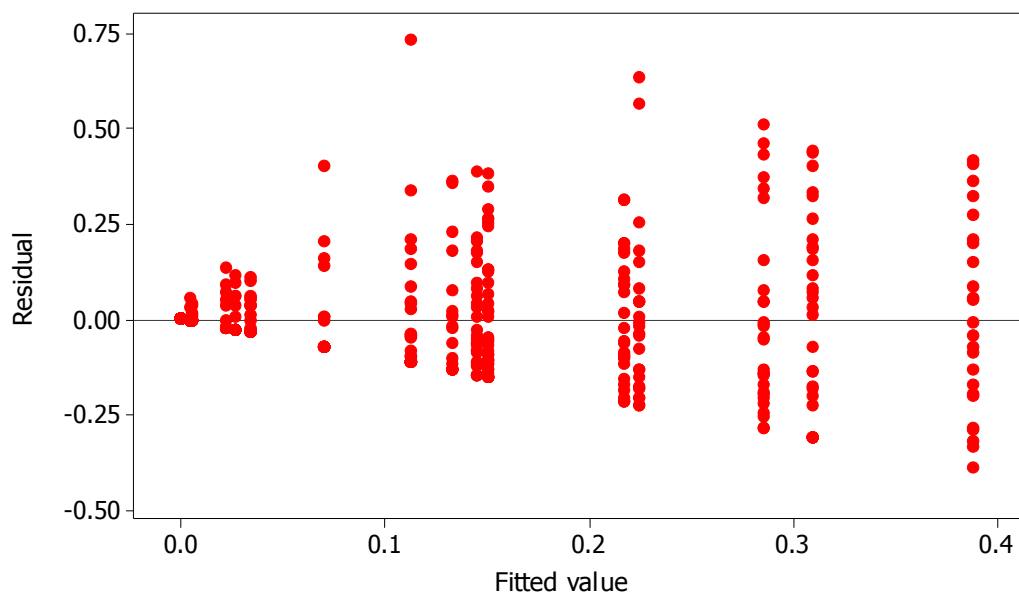


Figure A. 7 Residual versus fitted values plot for *Hornera robusta*.

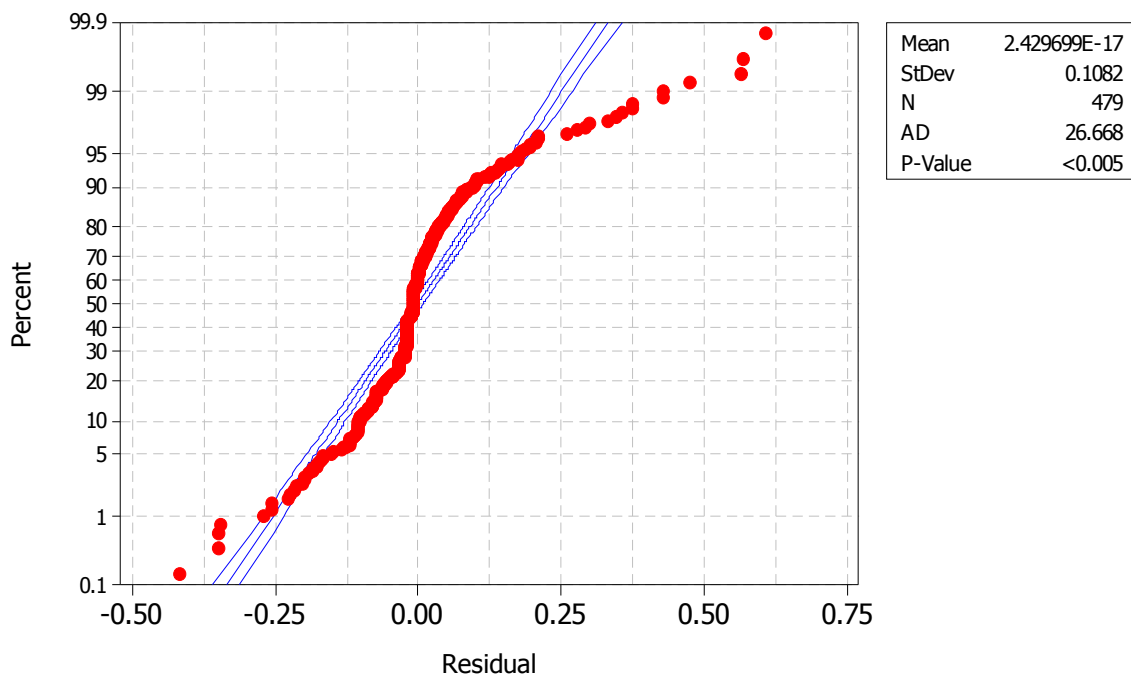


Figure A. 8 Normal probability plot (95% confidence intervals) for *Adeonellopsis* spp.

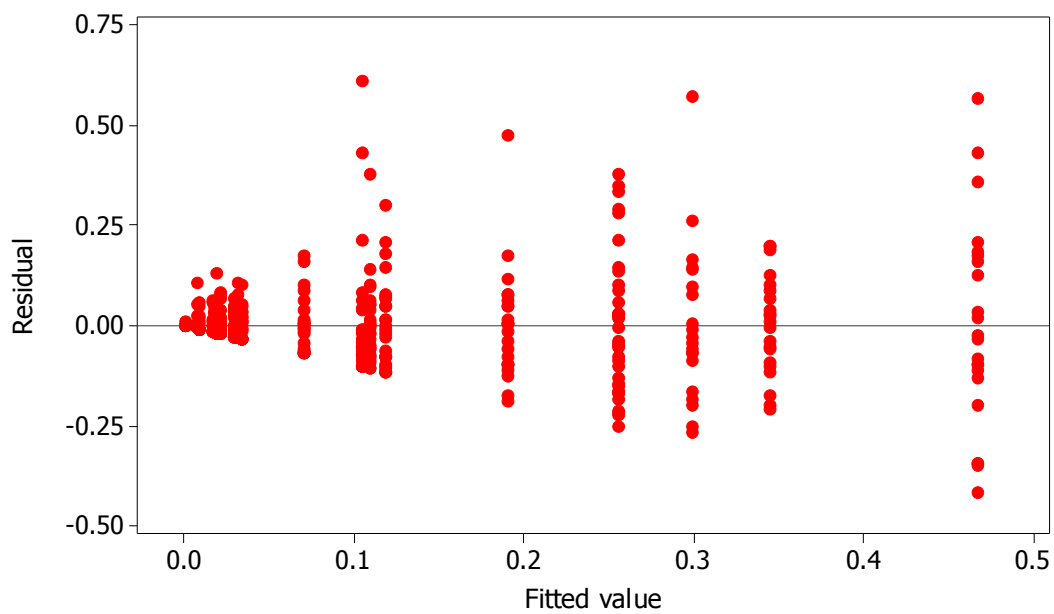


Figure A. 9 Residual versus fitted values plot for *Adeonellopsis* spp.

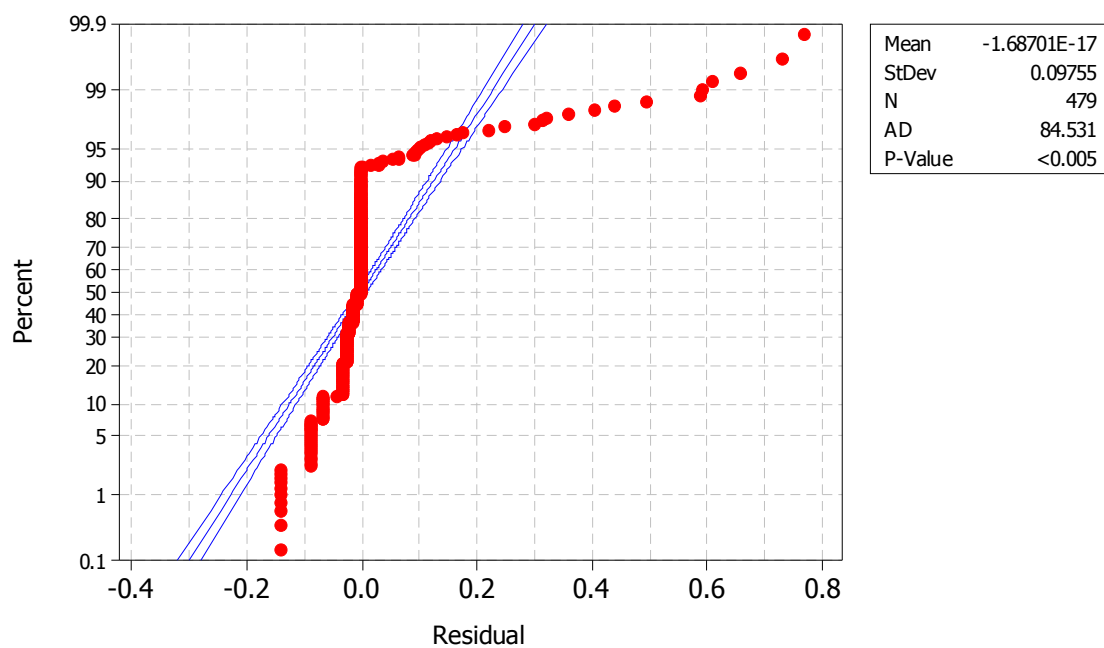


Figure A. 10 Normal probability plot (95% confidence intervals) for *Celleporaria agglutinans*.

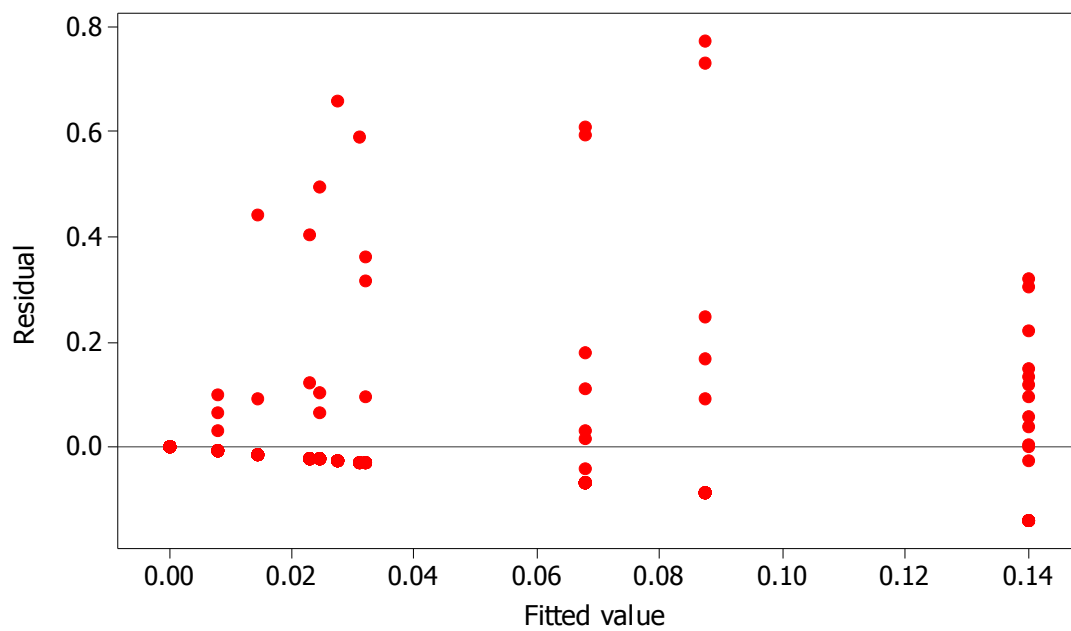


Figure A. 11 Residual versus fitted values plot for *Celleporaria agglutinans*.

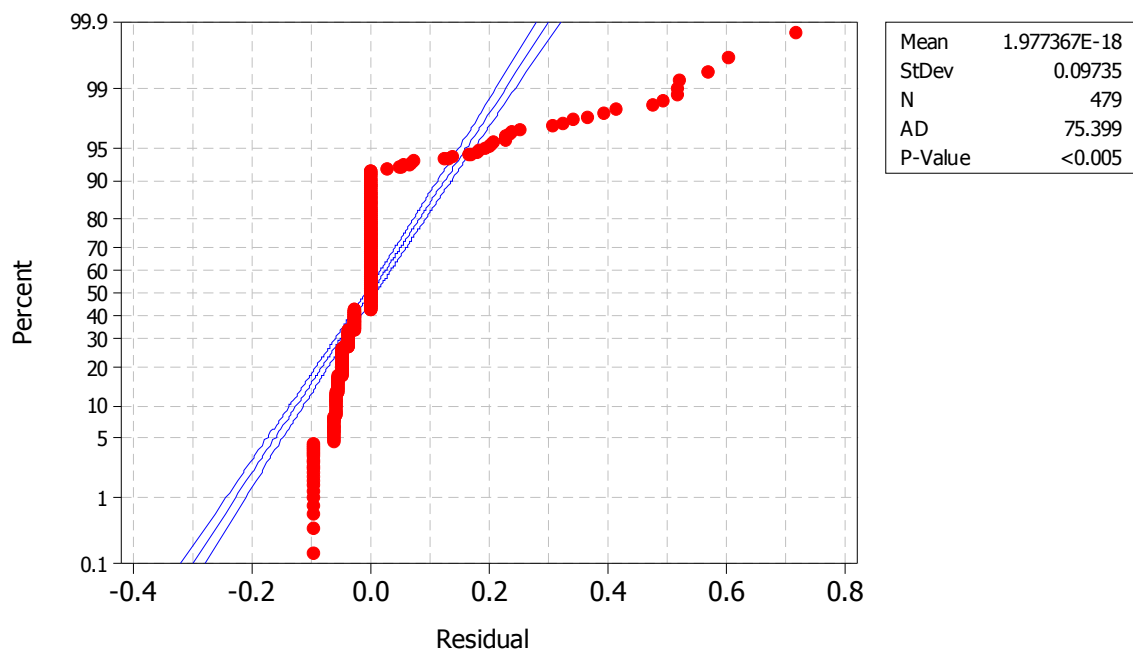


Figure A. 12 Normal probability plot (95% confidence intervals) for *Hornera foliacea*.

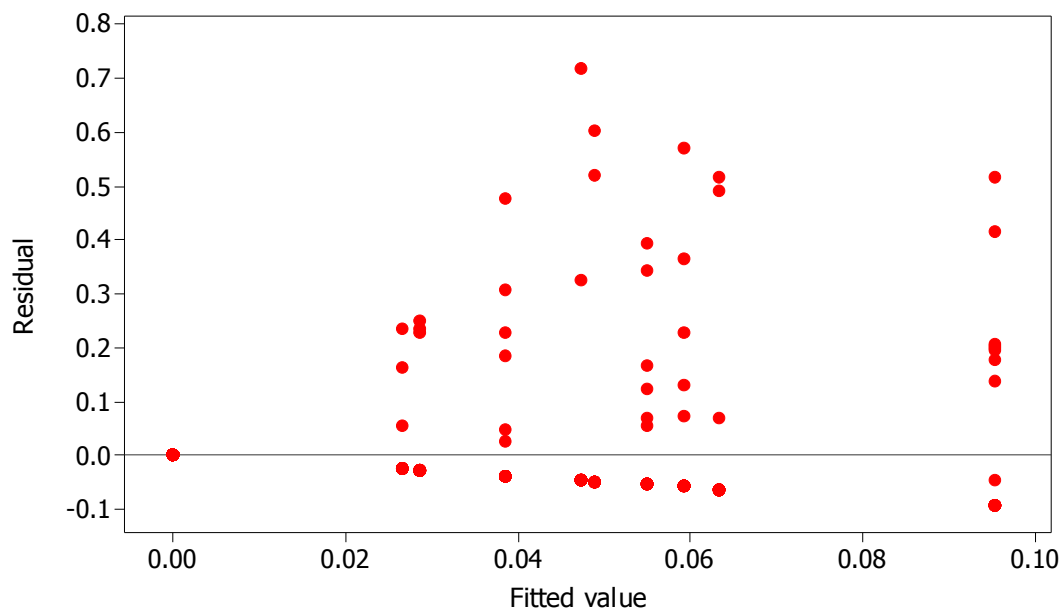


Figure A. 13 Residual versus fitted values plot for *Hornera foliacea*.

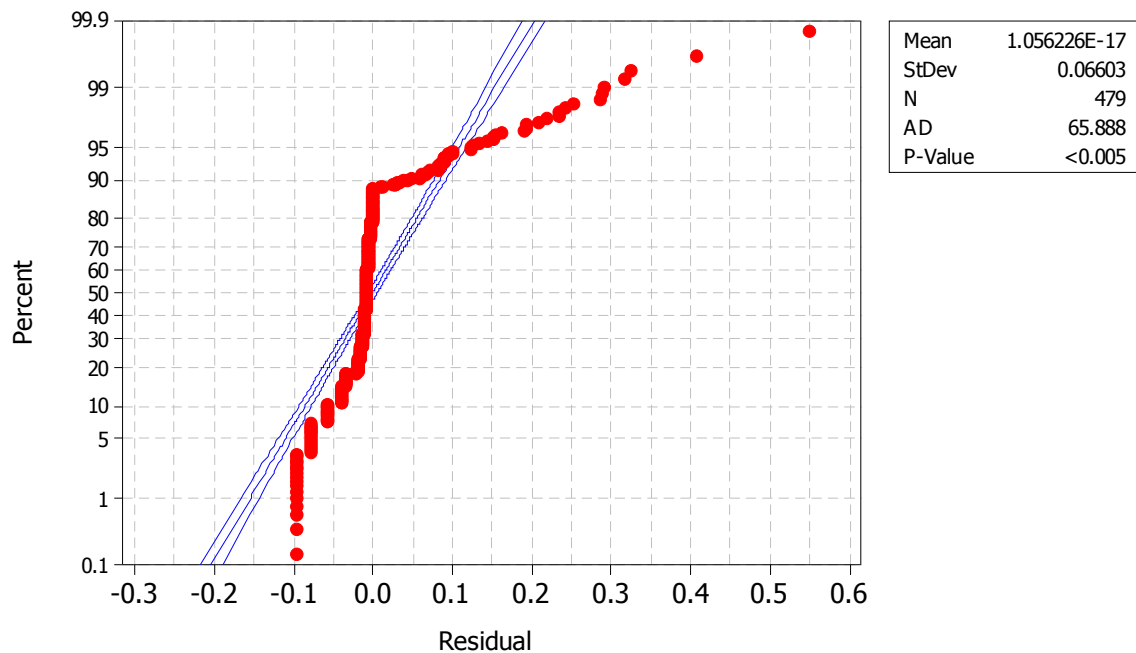


Figure A. 14 Normal probability plot (95% confidence intervals) for *Celleporina grandis*.

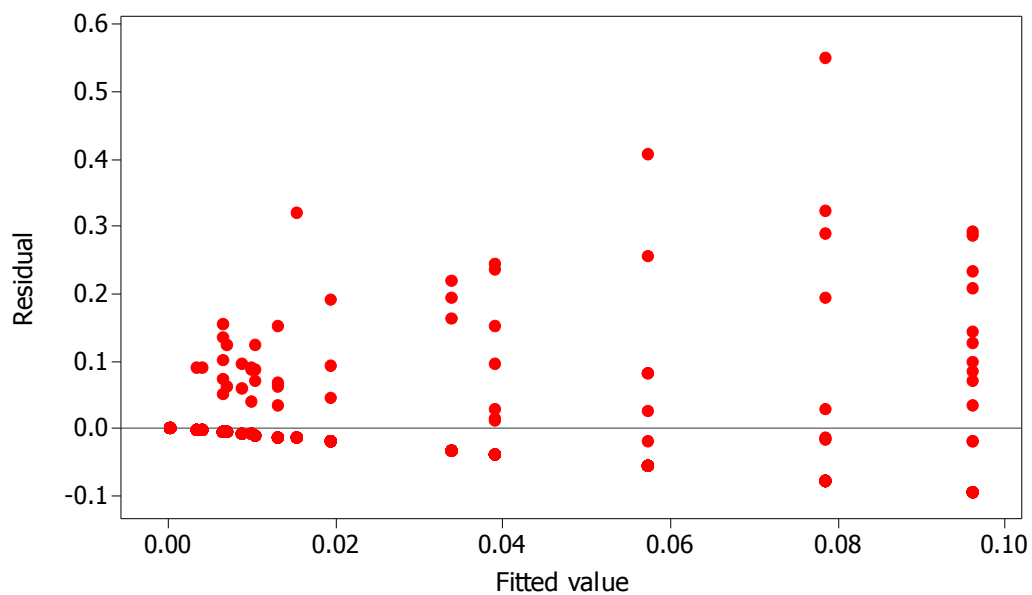


Figure A. 15 Residual versus fitted values plot for *Celleporina grandis*.

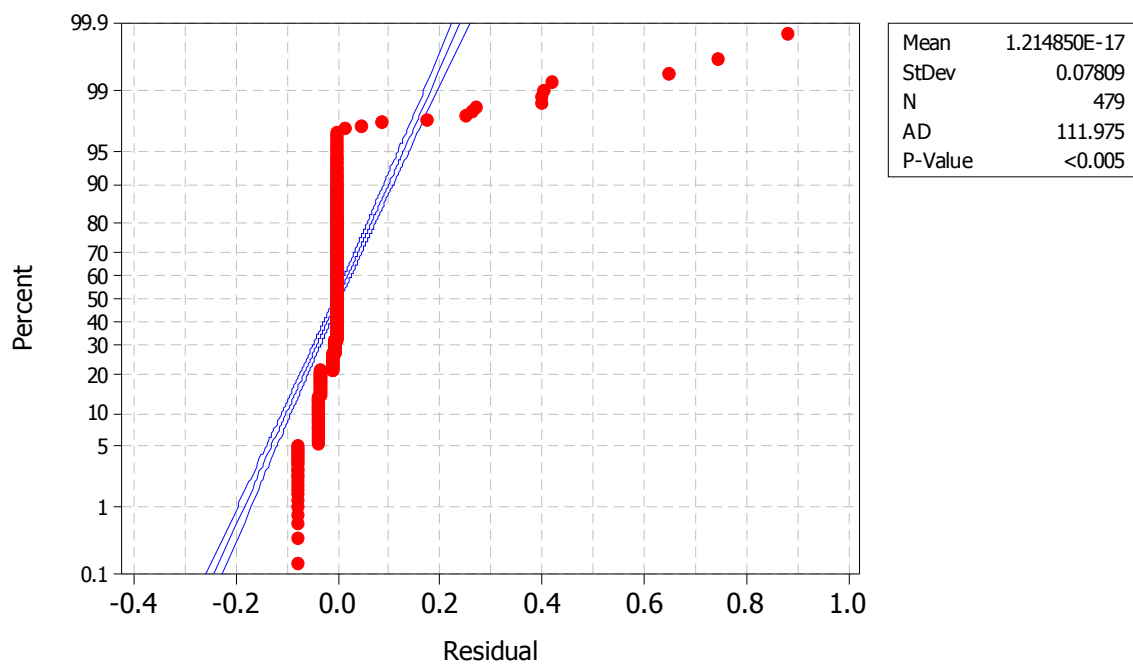


Figure A. 16 Normal probability plot (95% confidence intervals) for *Hippomenella vellicata*.

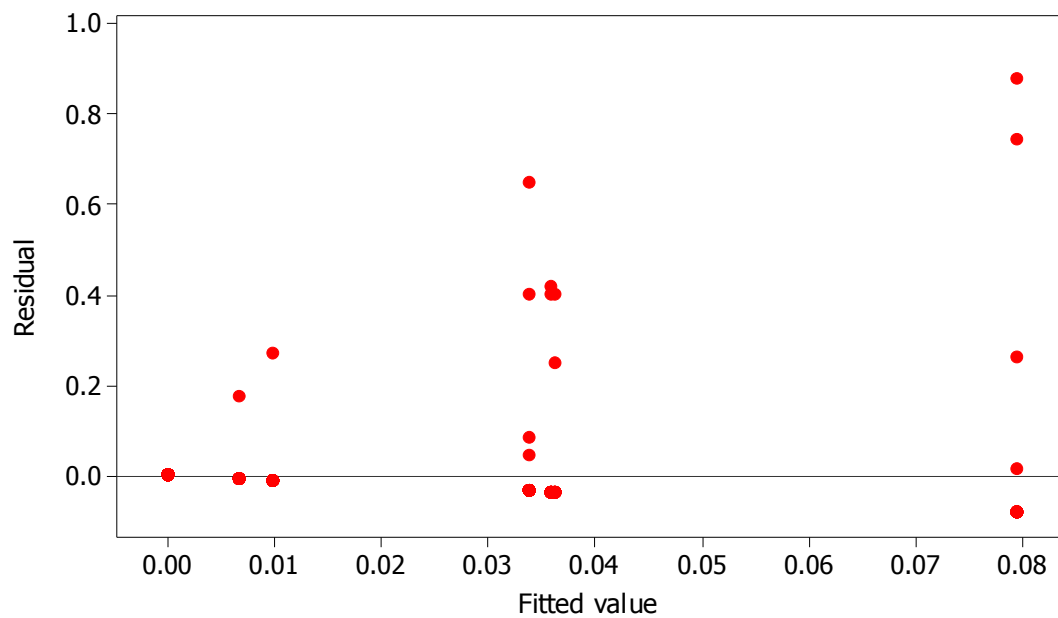


Figure A. 17 Residual versus fitted values plot for *Hippomenella vellicata*.

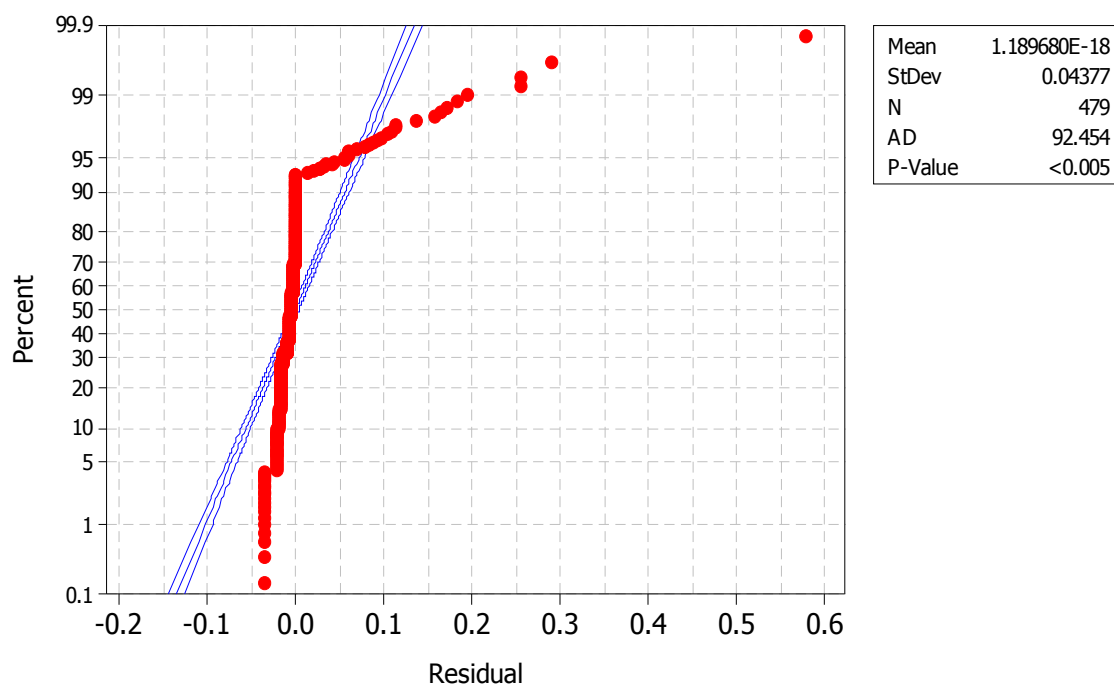


Figure A. 18 Normal probability plot (95% confidence intervals) for *Cellaria immersa*.

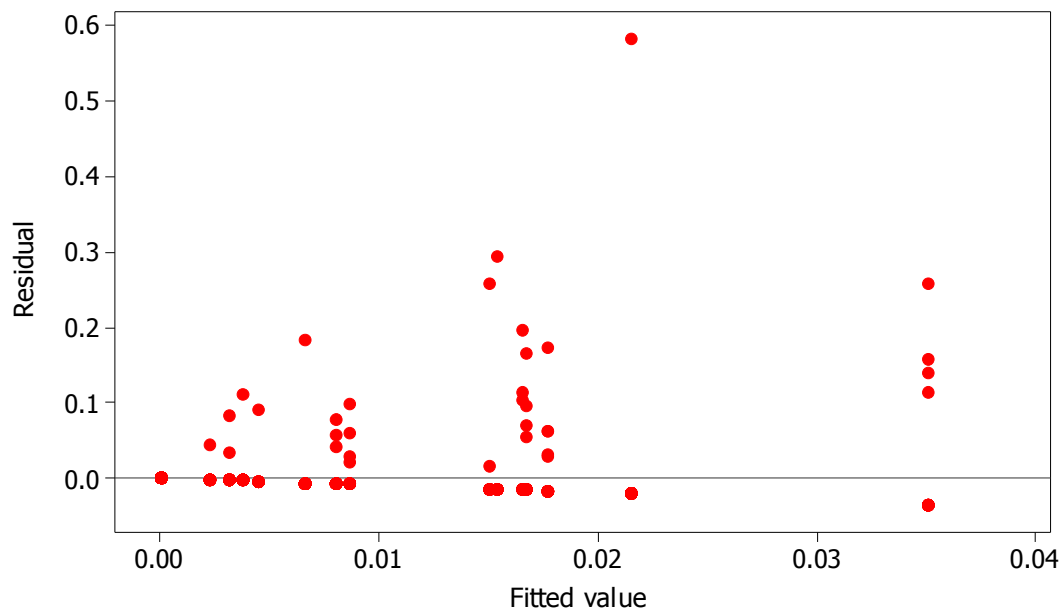


Figure A. 19 Residual versus fitted values plot for *Cellaria immersa*.

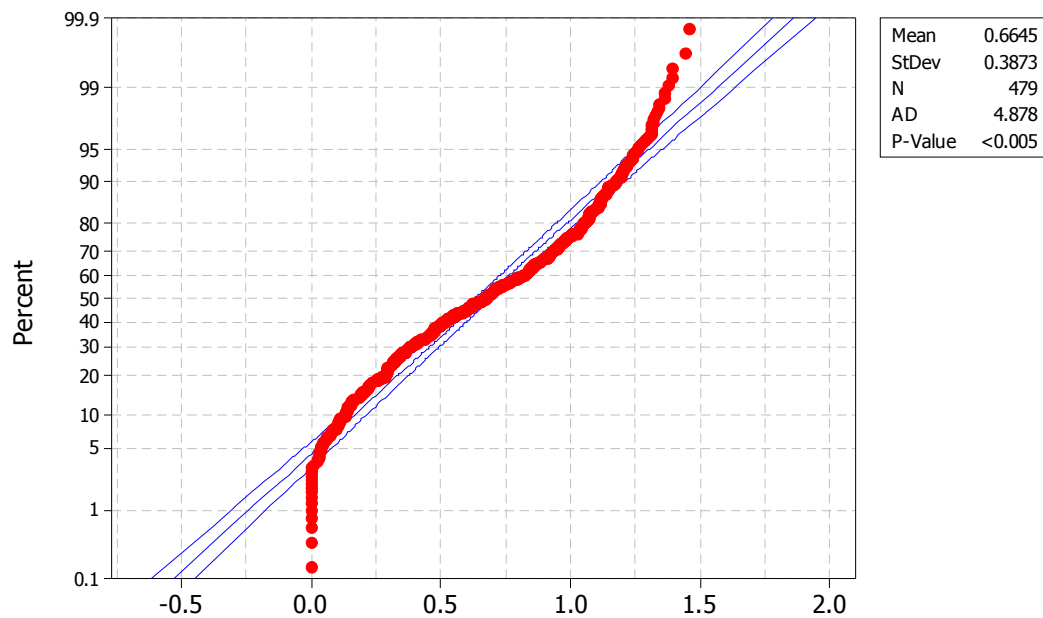


Figure A. 20 Normal probability plot (95% confidence intervals) for Total Epibenthos.

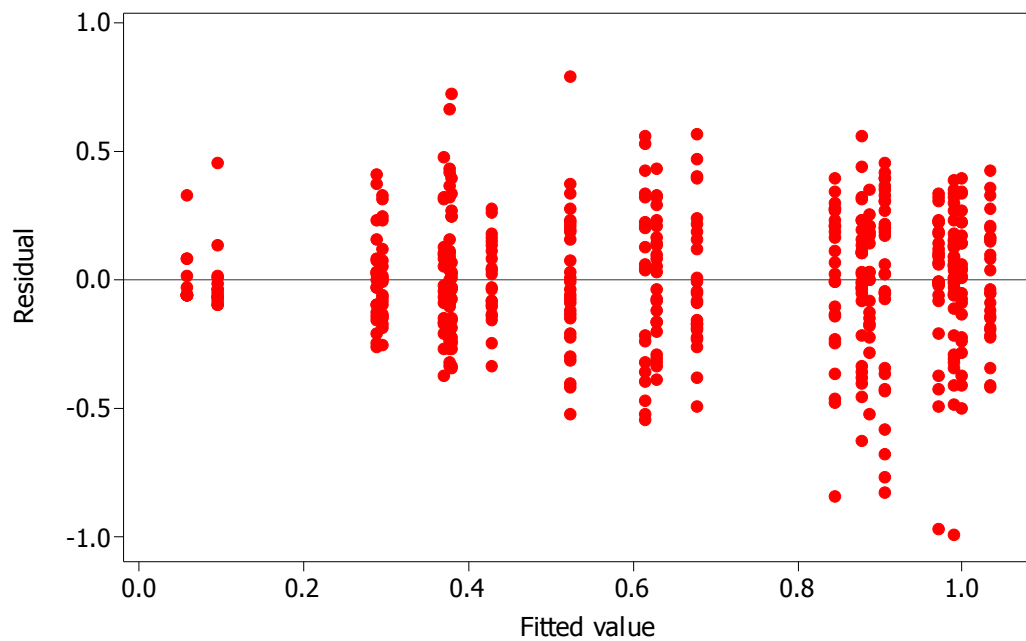


Figure A. 21 Residual versus fitted values plot for Total Epibenthos.

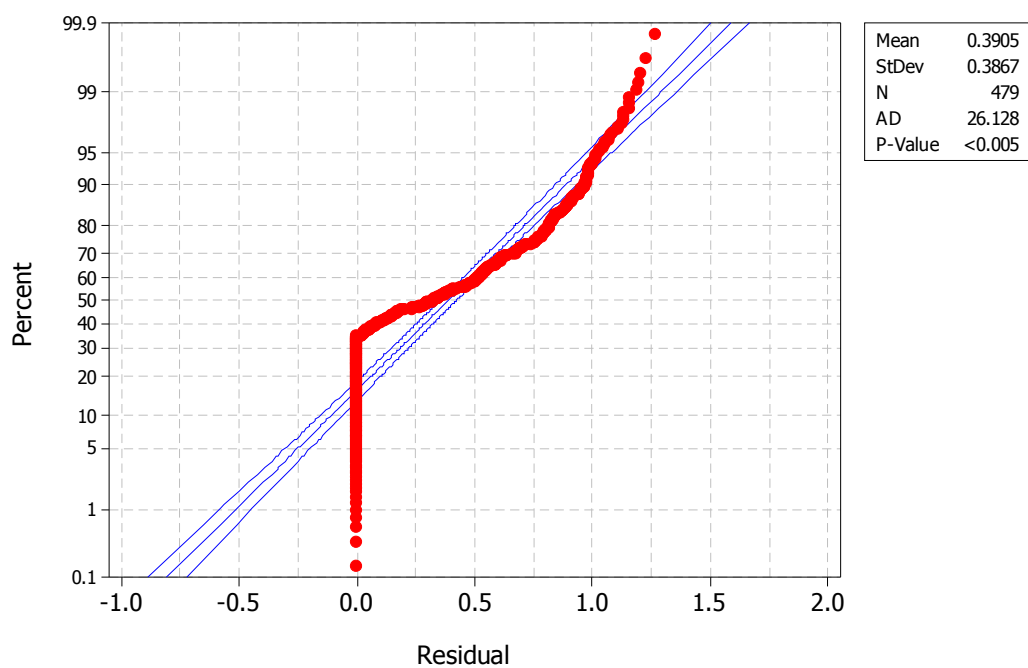


Figure A. 22 Normal probability plot (95% confidence intervals) for Porifera.

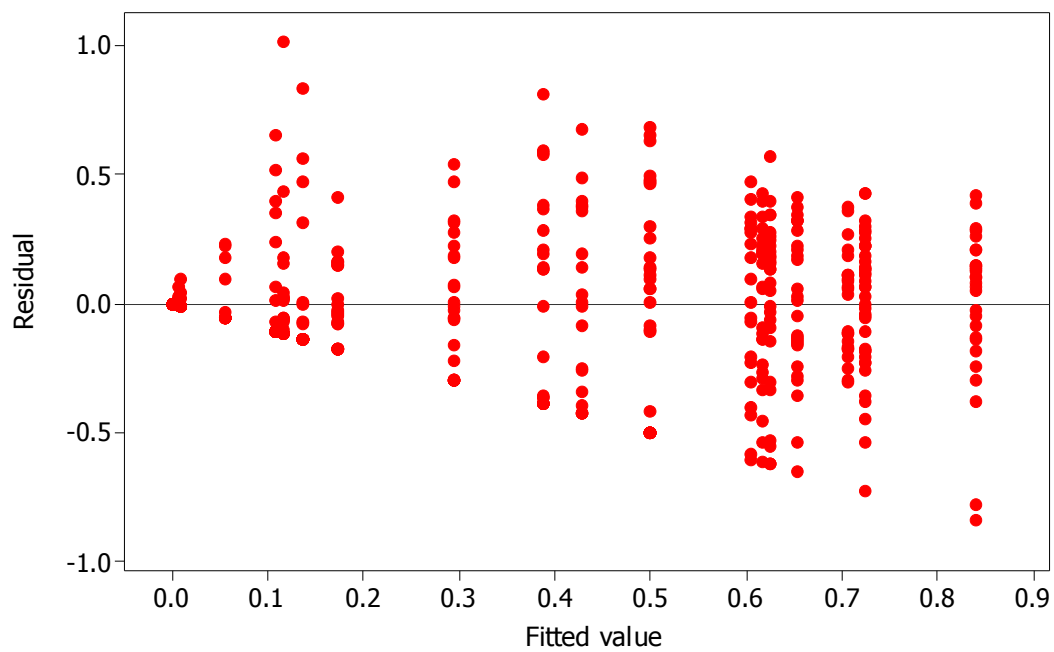


Figure A. 23 Residual versus fitted values plot for Porifera.

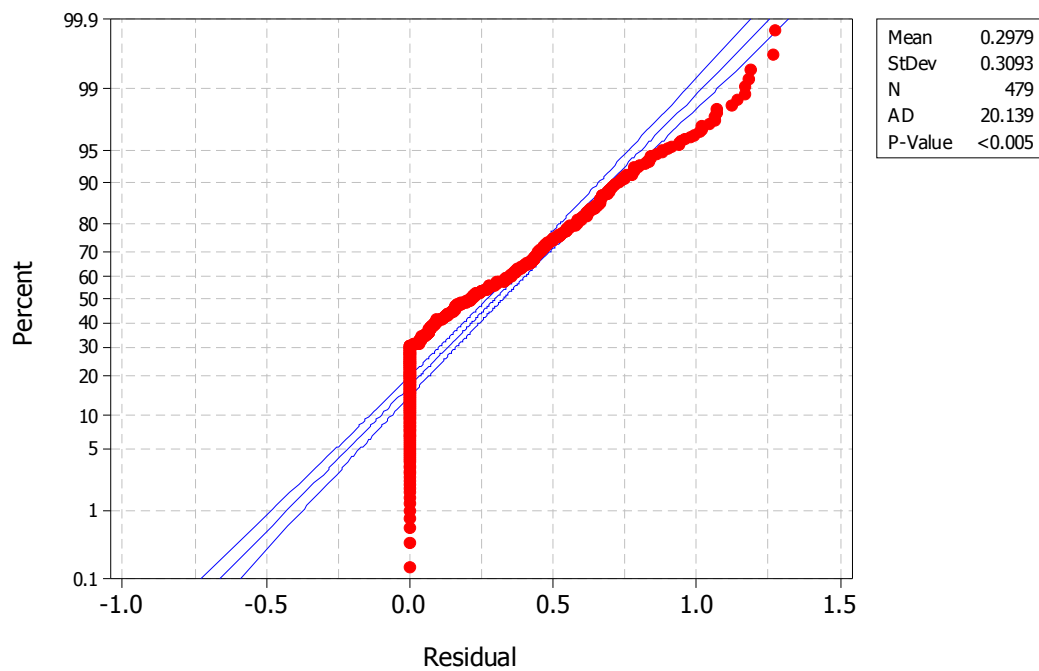


Figure A. 24 Normal probability plot (95% confidence intervals) for Echinodermata.

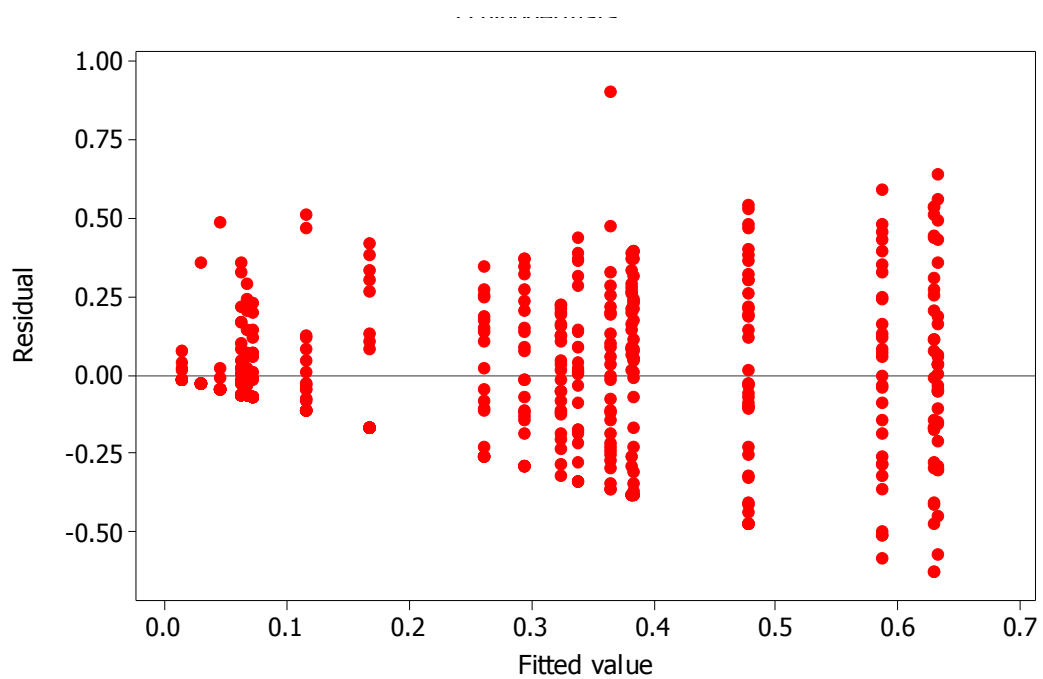


Figure A. 25 Residual versus fitted values plot for Echinodermata.

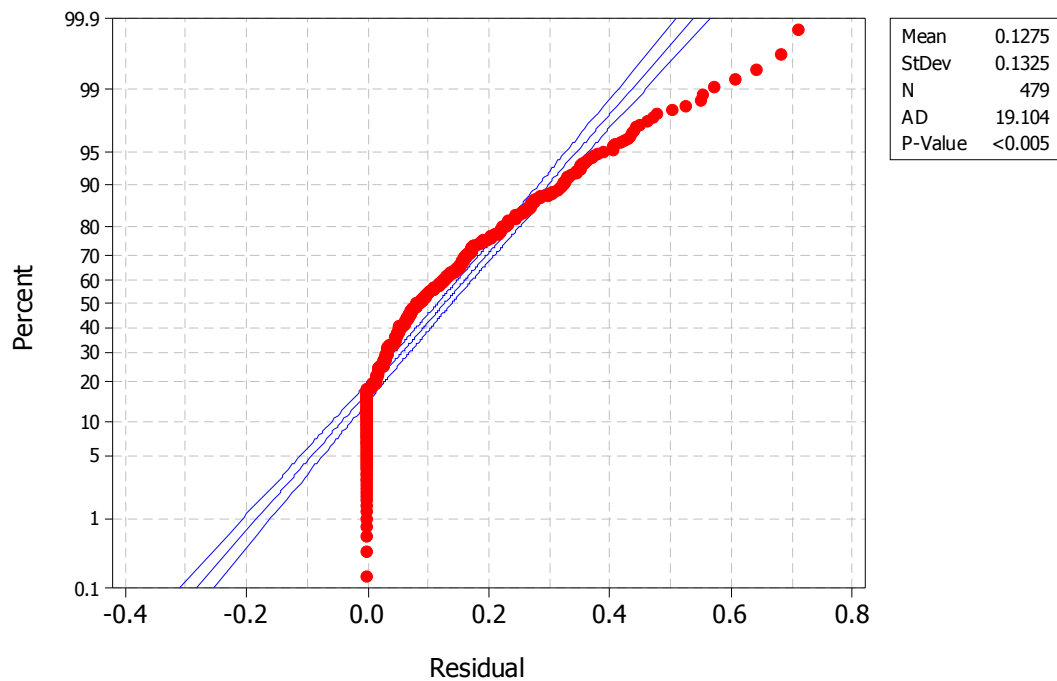


Figure A. 26 Normal probability plot (95% confidence intervals) for Ascidiacea.

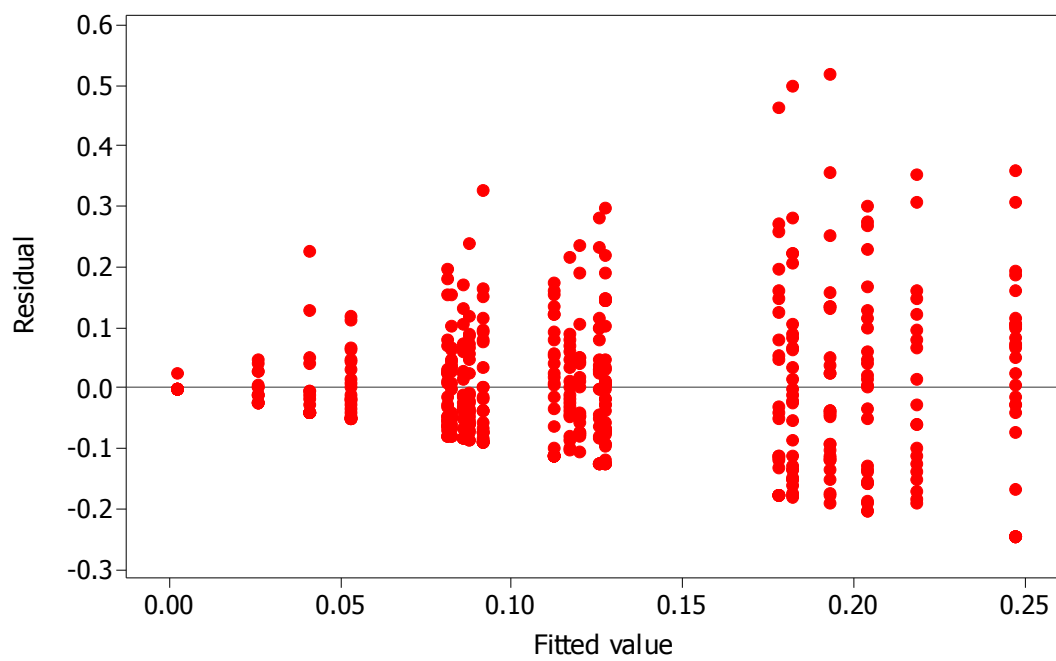


Figure A. 27 Residual versus fitted values plot for Ascidiacea.

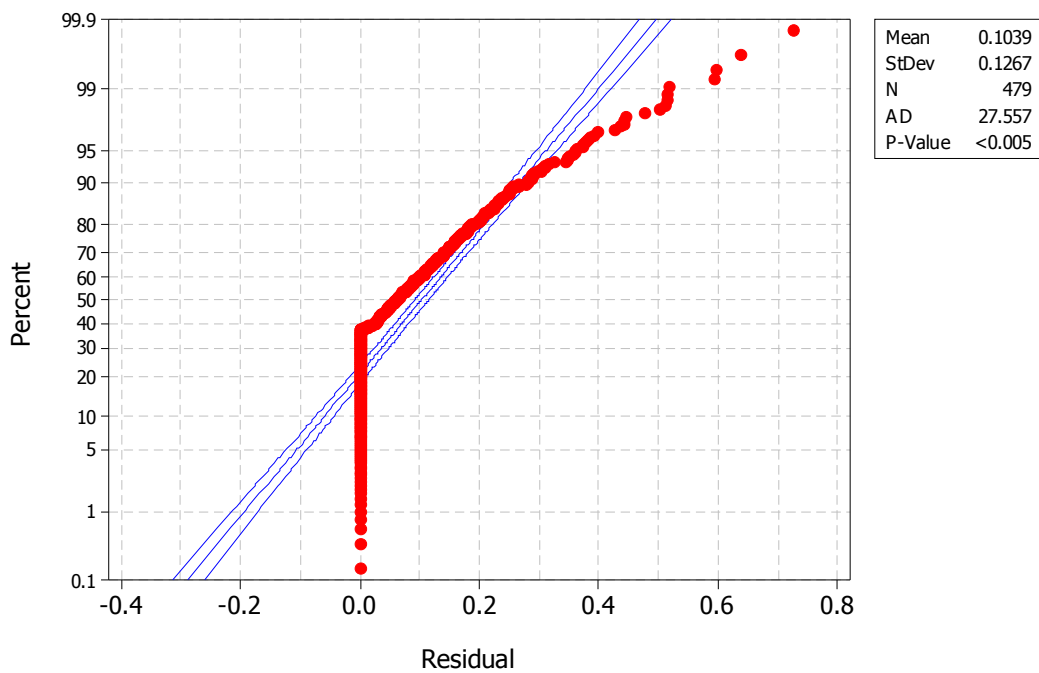


Figure A. 28 Normal probability plot (95% confidence intervals) for Mollusca.

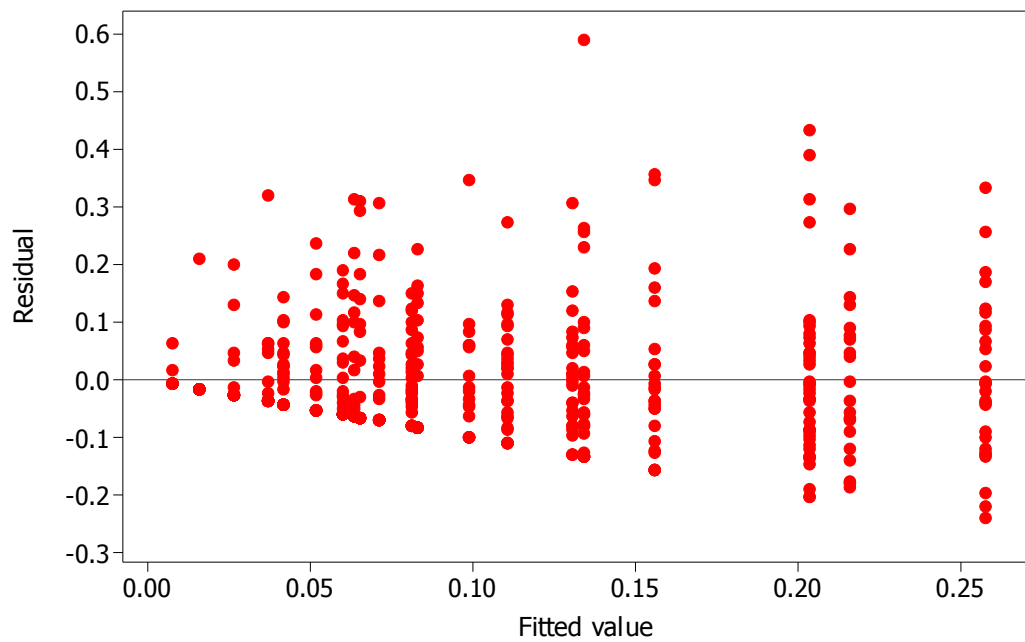


Figure A. 29 Residual versus fitted values plot for Mollusca.

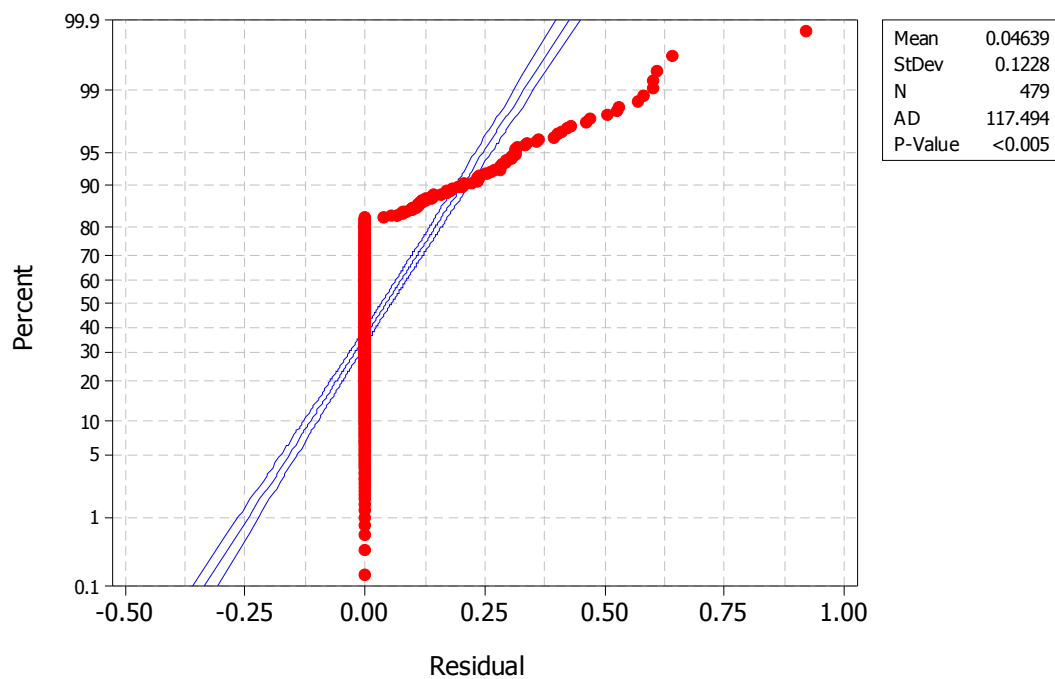


Figure A. 30 Normal probability plot (95% confidence intervals) for Actiniaria.

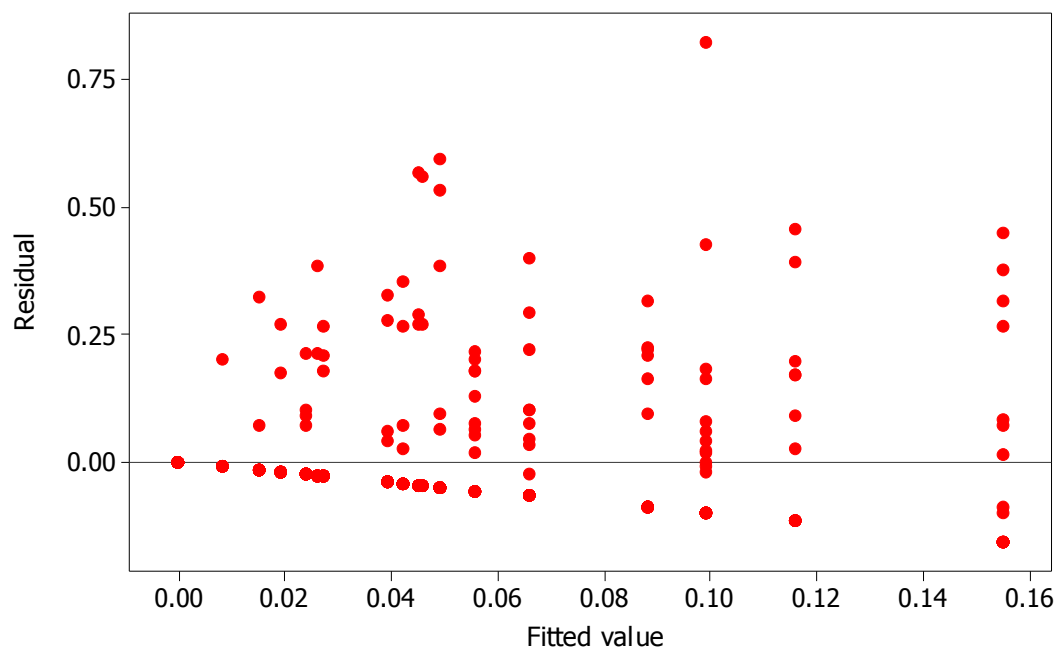


Figure A. 31 Residual versus fitted values plot for Actiniaria.

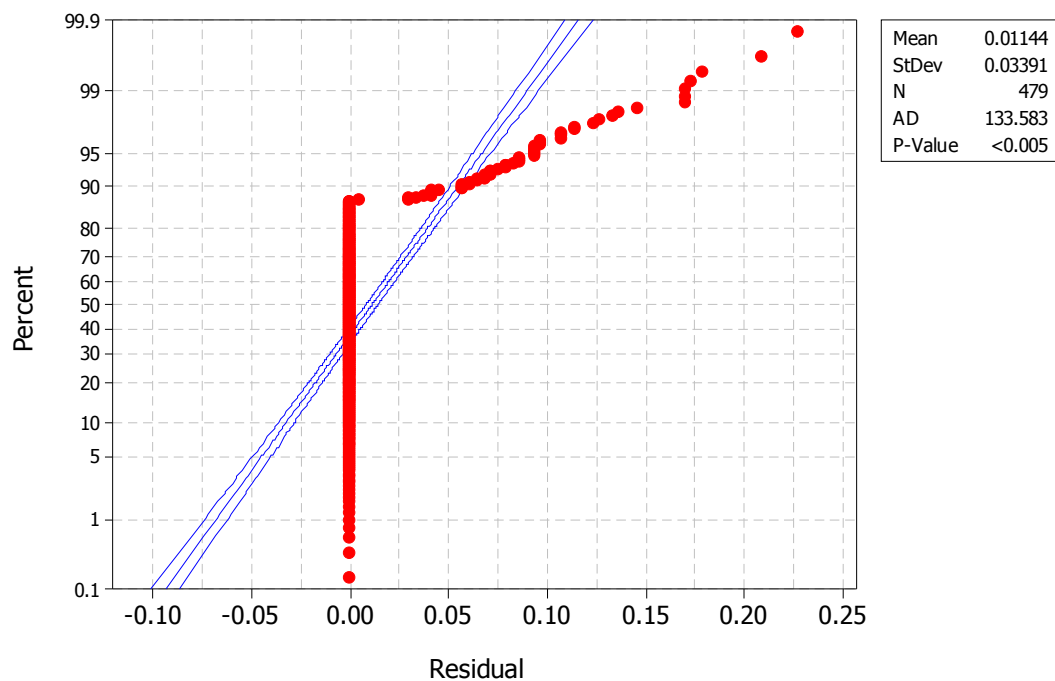


Figure A. 32 Normal probability plot (95% confidence intervals) for Crustacea.

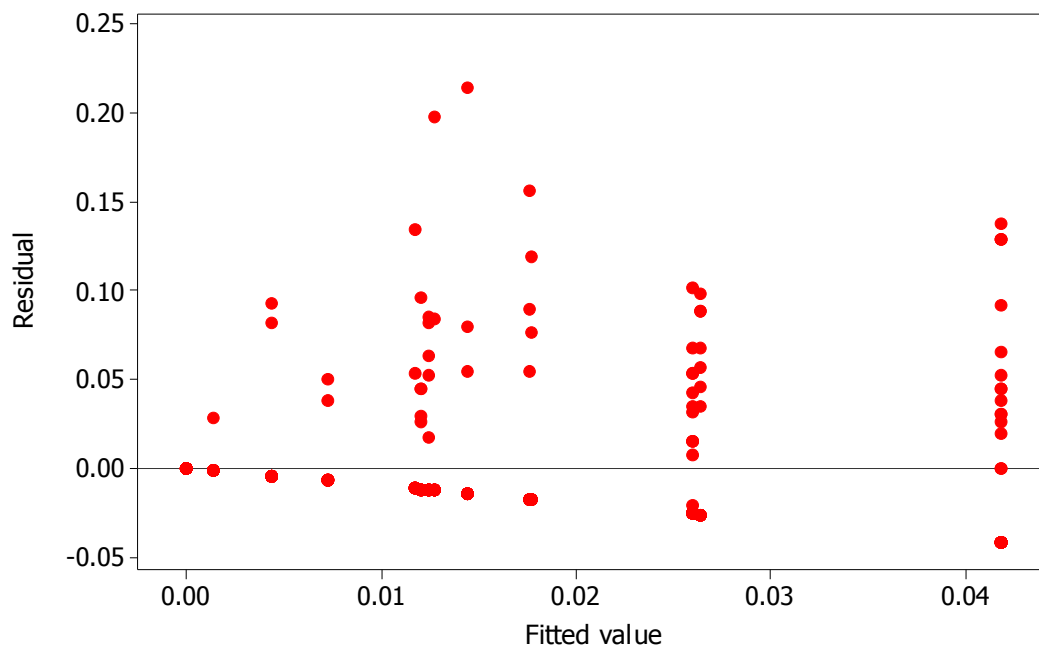


Figure A. 33 Residual versus fitted values plot for Crustacea.

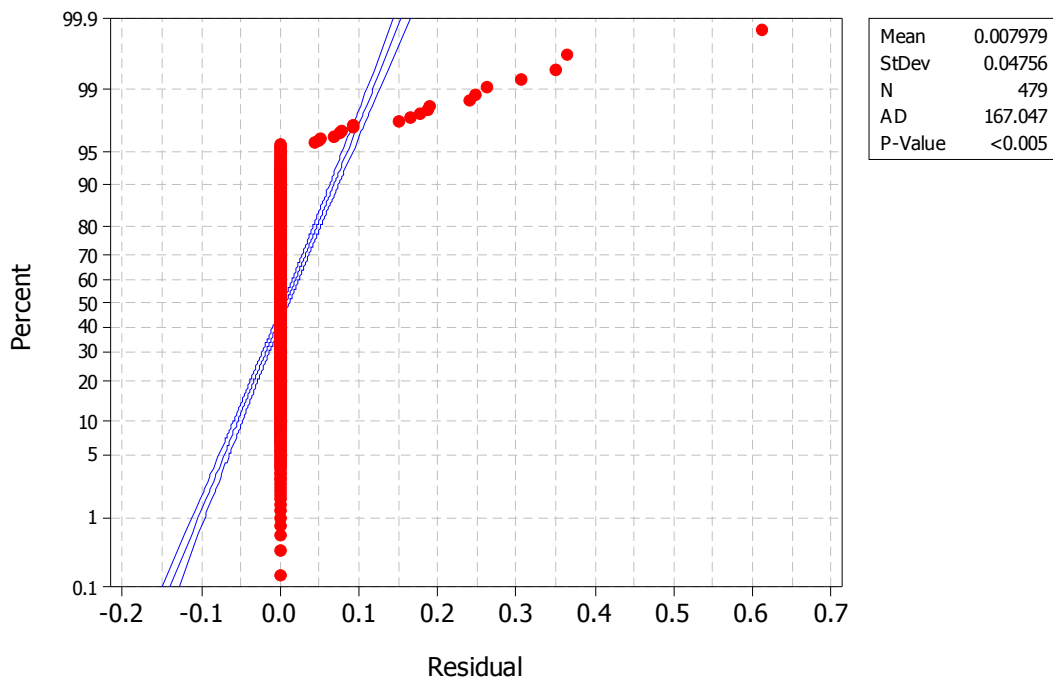


Figure A. 34 Normal probability plot (95% confidence intervals) for Polychaeta.

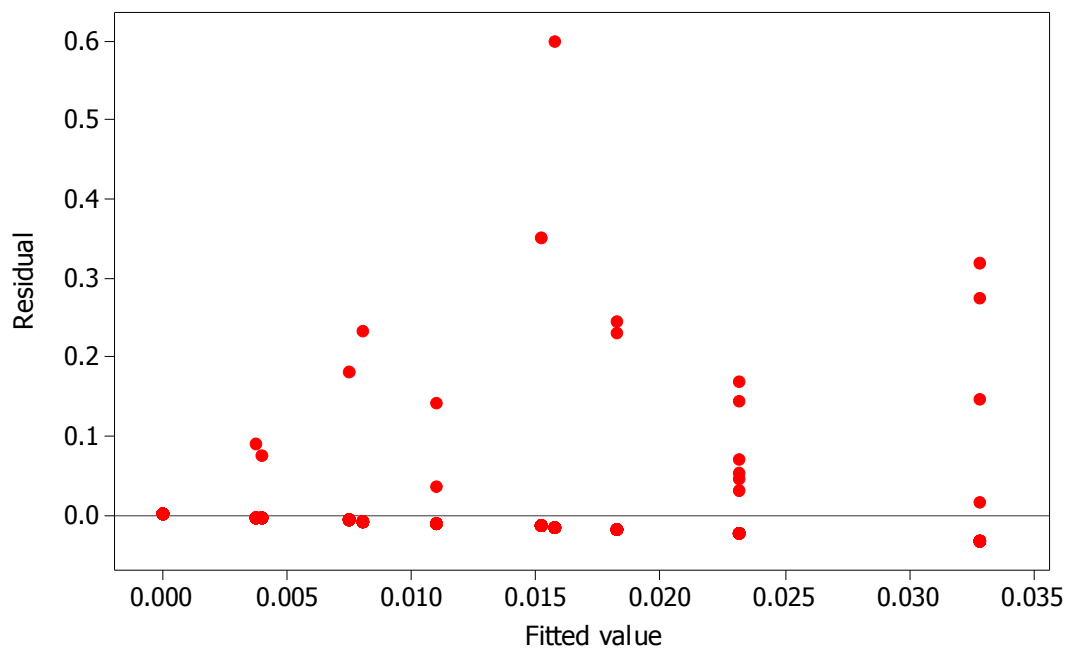


Figure A. 35 Residual versus fitted values plot for Polychaeta.

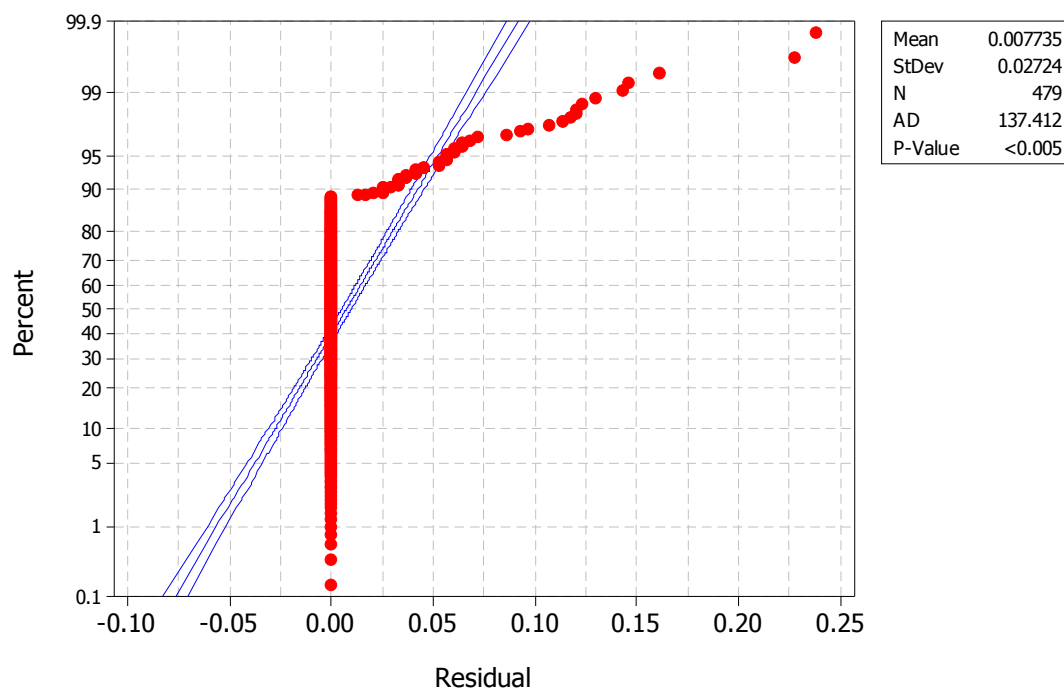


Figure A. 36 Normal probability plot (95% confidence intervals) for Symbiotic Bryozoa.

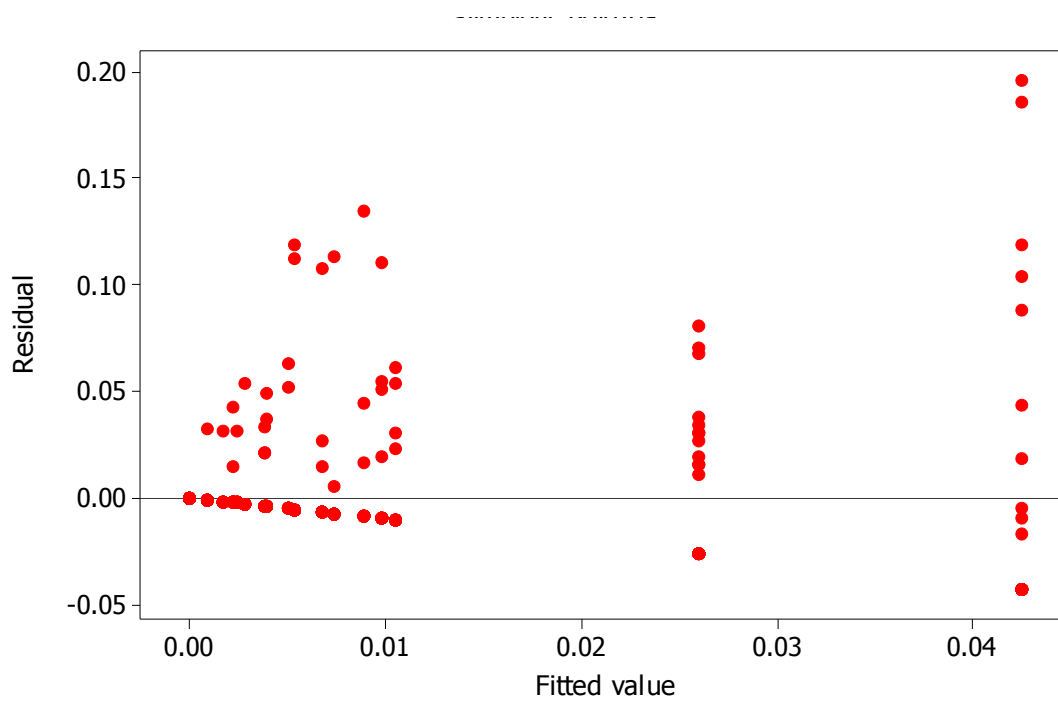


Figure A. 37 Residual versus fitted values plot for Symbiotic Bryozoa.

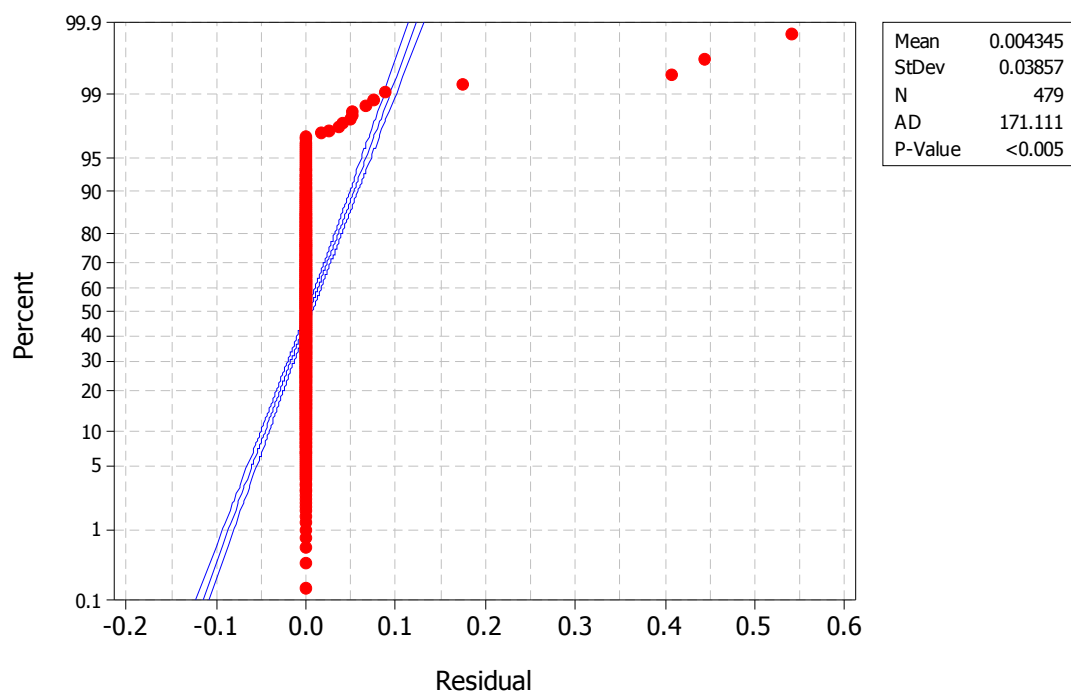


Figure A. 38 Normal probability plot (95% confidence intervals) for Teleostei.

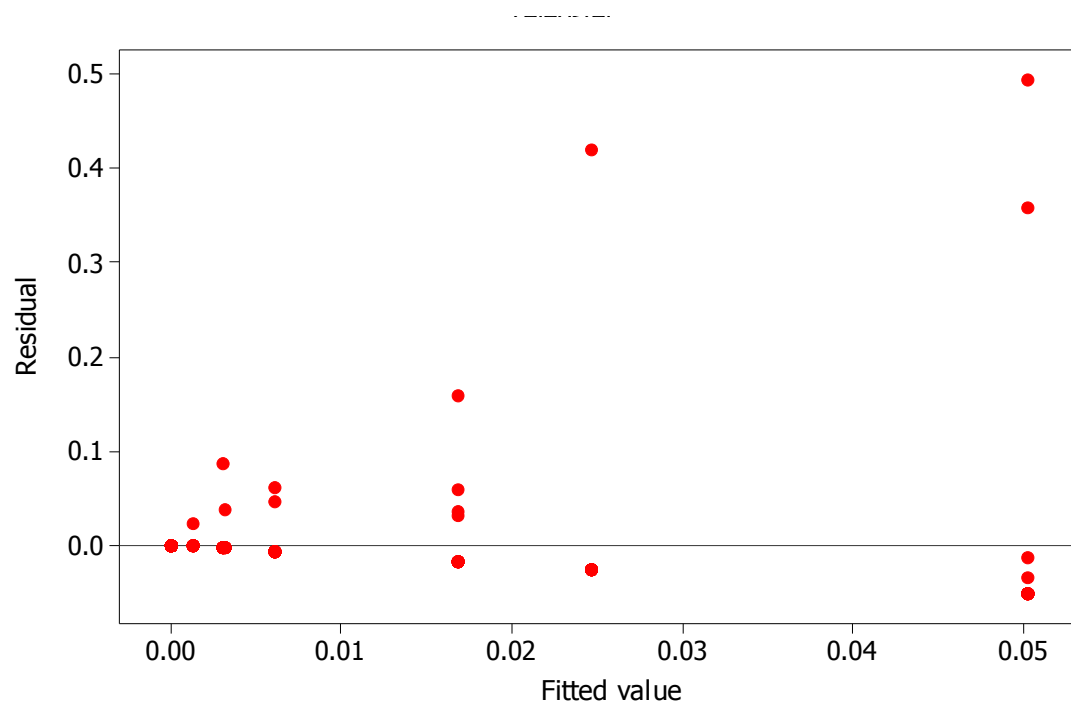


Figure A. 39 Residual versus fitted values plot for Teleostei.

Analysis of variance, General Linear Models, Tukey's Tests and Interaction plots

Table A. 3 Analysis of variance for $\text{Log}_{10}(\text{Celleporaria agglutinans})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.08	0.07	0.02	2.33	0.074
Transect	4	0.22	0.21	0.05	5.37	<0.001
Depth*Transect	12	0.31	0.31	0.03	2.57	0.003
Error	459	4.55	4.55	0.01		
Total	478	5.15				

$s = 0.0995443$

$r^2 = 11.61\%$

Table A. 4 Regression analysis for $\text{Log}_{10}(\text{Celleporaria agglutinans})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (*DV(A)*, *DV(B)*, *DV(D)*, *DV(E)*), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.08	0.15	0.05	5.03	0.002
DV(A)	1	0.02	0.13	0.13	13.31	<0.001
DV(B)	1	0.00	0.09	0.09	8.59	0.004
DV(D)	1	0.02	0.12	0.12	11.96	0.001
DV(E)	1	0.17	0.15	0.15	15.49	<0.001
Depth*DV(A)	3	0.06	0.17	0.06	5.87	0.001
Depth*DV(B)	3	0.06	0.16	0.05	5.31	0.001
Depth*DV(D)	3	0.08	0.16	0.05	5.25	0.001
Depth*DV(E)	3	0.10	0.10	0.03	3.37	0.018
Error	459	4.55	4.55	0.01		
Total	478	157.01				

$s = 0.0995443$

$r^2 = 11.61\%$

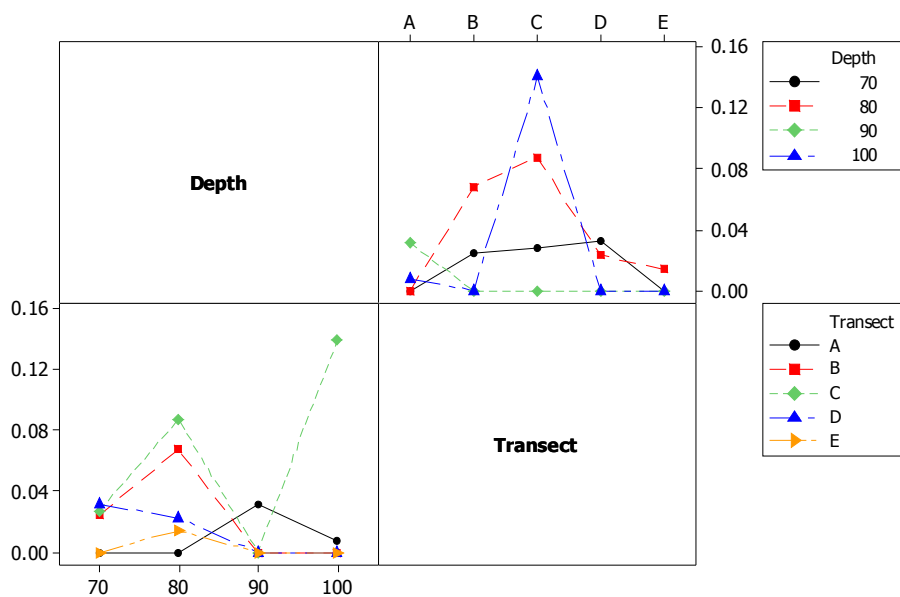


Figure A. 40 Interaction plots for changes in *Celleporaria agglutinans* coverage over *depth* and *transect*.

Table A. 5 Tukey's multiple comparison tests for differences in *Celleporaria agglutinans* cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.115 -0.115																		
A90	0.146 -0.084	0.143 -0.081																	
A100	0.114 -0.099	0.111 -0.096	0.080 -0.127																
B70	0.130 -0.081	0.108 -0.095	0.108 -0.095	0.076 -0.110															
B80	0.174 -0.038	0.170 -0.035	0.066 -0.139	0.033 -0.154	0.135 -0.049														
B90	0.107 -0.107	0.103 -0.103	0.072 -0.134	0.102 -0.087	0.068 -0.117	0.026 -0.161													
B100	0.111 -0.111	0.108 -0.108	0.077 -0.139	0.092 -0.107	0.073 -0.122	0.031 -0.166	0.099 -0.099												
C70	0.136 -0.082	0.078 -0.133	0.109 -0.102	0.077 -0.117	0.098 -0.093	0.137 -0.056	0.070 -0.124	0.074 -0.129											
C80	0.194 -0.019	0.191 -0.016	0.047 -0.160	0.015 -0.174	0.155 -0.030	0.113 -0.074	0.007 -0.182	0.012 -0.187	0.157 -0.037										
C90	0.110 -0.110	0.107 -0.107	0.076 -0.138	0.106 -0.090	0.072 -0.121	0.029 -0.165	0.098 -0.098	0.103 -0.103	0.073 -0.128	0.011 -0.185									
C100	0.252 0.028	0.249 0.031	0.218 0.000	0.233 0.032	0.215 0.017	0.172 -0.027	0.241 0.040	0.245 0.035	0.216 0.010	0.153 -0.048	0.244 0.036								
D70	0.139 -0.075	0.072 -0.136	0.103 -0.105	0.071 -0.120	0.101 -0.086	0.130 -0.059	0.063 -0.127	0.068 -0.132	0.103 -0.093	0.150 -0.040	0.067 -0.131	0.209 0.007							
D80	0.132 -0.086	0.129 -0.083	0.114 -0.098	0.082 -0.112	0.094 -0.097	0.051 -0.141	0.074 -0.120	0.079 -0.125	0.095 -0.104	0.033 -0.162	0.078 -0.124	0.221 0.014	0.089 -0.107						
D90	0.115 -0.115	0.112 -0.112	0.081 -0.143	0.111 -0.096	0.077 -0.126	0.035 -0.170	0.103 -0.103	0.108 -0.108	0.078 -0.133	0.016 -0.191	0.107 -0.107	0.249 0.031	0.072 -0.136	0.083 -0.129					
D100	0.113 -0.113	0.110 -0.110	0.079 -0.141	0.094 -0.110	0.076 -0.125	0.033 -0.169	0.102 -0.102	0.106 -0.106	0.077 -0.132	0.015 -0.189	0.105 -0.105	-0.033 -0.248	0.071 -0.135	0.082 -0.127	0.110 -0.110				
E70	0.109 -0.109	0.106 -0.106	0.137 -0.075	0.105 -0.089	0.071 -0.120	0.164 -0.028	0.097 -0.097	0.102 -0.102	0.072 -0.127	0.184 -0.010	0.101 -0.101	0.243 0.037	0.066 -0.130	0.123 -0.077	0.106 -0.106	0.104 -0.104			
E80	0.115 -0.086	0.111 -0.083	0.114 -0.080	0.081 -0.094	0.075 -0.096	0.033 -0.140	0.073 -0.102	0.078 -0.107	0.077 -0.103	0.014 -0.160	0.077 -0.106	0.220 0.032	0.071 -0.106	0.082 -0.099	0.083 -0.111	0.081 -0.110	0.105 -0.076		
E90	0.126 -0.126	0.123 -0.123	0.092 -0.154	0.123 -0.108	0.090 -0.139	0.047 -0.183	0.115 -0.115	0.120 -0.120	0.090 -0.145	0.028 -0.203	0.119 -0.119	0.261 0.020	0.084 -0.148	0.095 -0.141	0.123 -0.123	0.122 -0.122	0.118 -0.118	0.096 -0.124	
E100	0.128 -0.128	0.126 -0.126	0.095 -0.157	0.111 -0.126	0.093 -0.142	0.050 -0.186	0.118 -0.118	0.122 -0.122	0.093 -0.148	0.031 -0.206	0.121 -0.121	-0.017 -0.264	0.087 -0.151	0.098 -0.143	0.126 -0.126	0.125 -0.125	0.121 -0.121	0.099 -0.127	0.136 -0.136

Table A. 6 Analysis of variance for $\text{Log}_{10}(\text{Hornera foliacea})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.02	0.02	0.01	0.75	0.521
Transect	4	0.04	0.03	0.01	0.83	0.506
Depth*Transect	12	0.36	0.36	0.03	3.00	<0.001
Error	459	4.53	4.53	0.01		
Total	478	4.95				

$s = 0.0993395$

$r^2 = 8.43\%$

Table A. 7 Regression analysis for $\text{Log}_{10}(\text{Hornera foliacea})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (*DV(A)*, *DV(B)*, *DV(D)*, *DV(E)*), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.02	0.05	0.02	1.60	0.188
DV(A)	1	0.03	0.02	0.02	1.53	0.217
DV(B)	1	0.00	0.00	0.00	0.12	0.724
DV(D)	1	0.01	0.00	0.00	0.23	0.631
DV(E)	1	0.00	0.00	0.00	0.38	0.539
Depth*DV(A)	3	0.11	0.03	0.01	0.98	0.402
Depth*DV(B)	3	0.16	0.16	0.05	5.52	0.001
Depth*DV(D)	3	0.06	0.06	0.02	2.18	0.090
Depth*DV(E)	3	0.02	0.02	0.01	0.68	0.567
Error	459	4.53	4.53	0.01		
Total	478	4.95				

$s = 0.0993395$

$r^2 = 8.43\%$

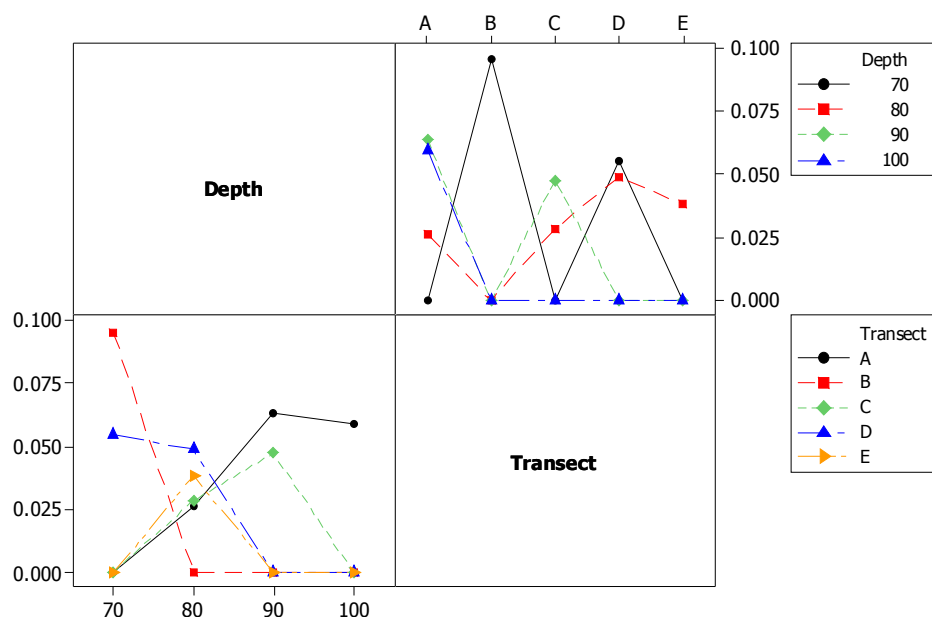


Figure A. 41 Interaction plots for changes in *Hornera foliacea* coverage over *depth* and *transect*.

Table A. 8 Tukey's multiple comparison tests for differences in *Hornera foliacea* cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.141 -0.088																		
A90	0.178 -0.051	0.148 -0.074																	
A100	0.166 -0.047	0.136 -0.070	0.099 -0.107																
B70	0.200 -0.010	0.069 -0.134	0.069 -0.134	0.056 -0.129															
B80	0.106 -0.106	0.076 -0.129	0.166 -0.039	0.152 -0.034	-0.004 -0.187														
B90	0.106 -0.106	0.077 -0.130	0.040 -0.166	0.153 -0.035	-0.003 -0.188	0.093 -0.093													
B100	0.111 -0.111	0.081 -0.134	0.044 -0.171	0.040 -0.158	0.002 -0.193	0.098 -0.098	0.099 -0.099												
C70	0.109 -0.109	0.132 -0.079	0.169 -0.042	0.156 -0.038	0.000 -0.191	0.096 -0.096	0.097 -0.097	0.102 -0.102											
C80	0.135 -0.078	0.105 -0.101	0.138 -0.068	0.125 -0.063	0.026 -0.159	0.122 -0.065	0.066 -0.123	0.071 -0.128	0.125 -0.068										
C90	0.157 -0.062	0.127 -0.086	0.091 -0.123	0.110 -0.086	0.048 -0.144	0.145 -0.050	0.145 -0.051	0.055 -0.150	0.148 -0.053	0.117 -0.079									
C100	0.112 -0.112	0.082 -0.135	0.045 -0.172	0.041 -0.160	0.003 -0.194	0.100 -0.100	0.100 -0.100	0.105 -0.105	0.103 -0.103	0.072 -0.129	0.056 -0.151								
D70	0.162 -0.052	0.075 -0.132	0.112 -0.095	0.099 -0.091	0.053 -0.134	0.039 -0.149	0.040 -0.150	0.045 -0.155	0.153 -0.043	0.069 -0.121	0.091 -0.106	0.046 -0.156							
D80	0.158 -0.060	0.128 -0.083	0.120 -0.091	0.107 -0.086	0.049 -0.142	0.145 -0.047	0.048 -0.146	0.053 -0.151	0.148 -0.051	0.117 -0.077	0.099 -0.102	0.054 -0.152	0.092 -0.104						
D90	0.114 -0.114	0.085 -0.138	0.048 -0.175	0.162 -0.044	0.006 -0.197	0.102 -0.102	0.103 -0.103	0.108 -0.108	0.106 -0.106	0.075 -0.132	0.059 -0.154	0.109 -0.109	0.049 -0.159	0.057 -0.154					
D100	0.113 -0.113	0.083 -0.136	0.047 -0.173	0.042 -0.161	0.005 -0.196	0.101 -0.101	0.102 -0.102	0.106 -0.106	0.104 -0.104	0.073 -0.130	0.058 -0.153	0.107 -0.107	0.048 -0.157	0.055 -0.153	0.110 -0.110				
E70	0.109 -0.109	0.132 -0.079	0.169 -0.042	0.156 -0.038	0.000 -0.191	0.096 -0.096	0.097 -0.097	0.102 -0.102	0.100 -0.100	0.125 -0.068	0.148 -0.053	0.103 -0.103	0.043 -0.153	0.148 -0.051	0.106 -0.106	0.104 -0.104			
E80	0.139 -0.062	0.109 -0.085	0.122 -0.072	0.108 -0.066	0.028 -0.143	0.125 -0.048	0.049 -0.126	0.054 -0.131	0.129 -0.052	0.097 -0.077	0.100 -0.082	0.055 -0.132	0.072 -0.105	0.080 -0.101	0.058 -0.135	0.057 -0.134	0.129 -0.052		
E90	0.125 -0.125	0.096 -0.149	0.059 -0.186	0.174 -0.056	0.018 -0.209	0.115 -0.115	0.115 -0.115	0.119 -0.119	0.117 -0.118	0.087 -0.144	0.071 -0.166	0.120 -0.120	0.061 -0.171	0.069 -0.166	0.123 -0.123	0.121 -0.121	0.117 -0.118	0.071 -0.148	
E100	0.128 -0.128	0.099 -0.152	0.062 -0.189	0.059 -0.177	0.021 -0.212	0.117 -0.118	0.118 -0.118	0.122 -0.122	0.120 -0.120	0.090 -0.147	0.074 -0.169	0.123 -0.123	0.064 -0.174	0.072 -0.169	0.125 -0.125	0.124 -0.124	0.120 -0.120	0.074 -0.151	0.136 -0.136

Table A. 9 Analysis of variance for $\text{Log}_{10}(\text{Celleporina grandis})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.07	0.04	0.01	3.30	0.020
Transect	4	0.10	0.08	0.02	4.18	0.002
Depth*Transect	12	0.19	0.19	0.02	3.55	<0.001
Error	459	2.08	2.08	0.00		
Total	478	2.44				

$s = 0.0673856$

$r^2 = 14.55\%$

Table A. 10 Regression analysis for $\text{Log}_{10}(\text{Celleporina grandis})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (*DV(A)*, *DV(B)*, *DV(D)*, *DV(E)*), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.07	0.02	0.01	1.53	0.206
DV(A)	1	0.03	0.03	0.03	7.50	0.006
DV(B)	1	0.00	0.01	0.01	2.44	0.119
DV(D)	1	0.06	0.04	0.04	8.53	0.004
DV(E)	1	0.00	0.00	0.00	0.09	0.759
Depth*DV(A)	3	0.09	0.05	0.02	3.89	0.009
Depth*DV(B)	3	0.05	0.01	0.00	0.89	0.447
Depth*DV(D)	3	0.05	0.05	0.02	3.34	0.019
Depth*DV(E)	3	0.00	0.00	0.00	0.16	0.921
Error	459	2.08	2.08	0.00		
Total	478	2.44				

$s = 0.0673856$

$r^2 = 14.55\%$

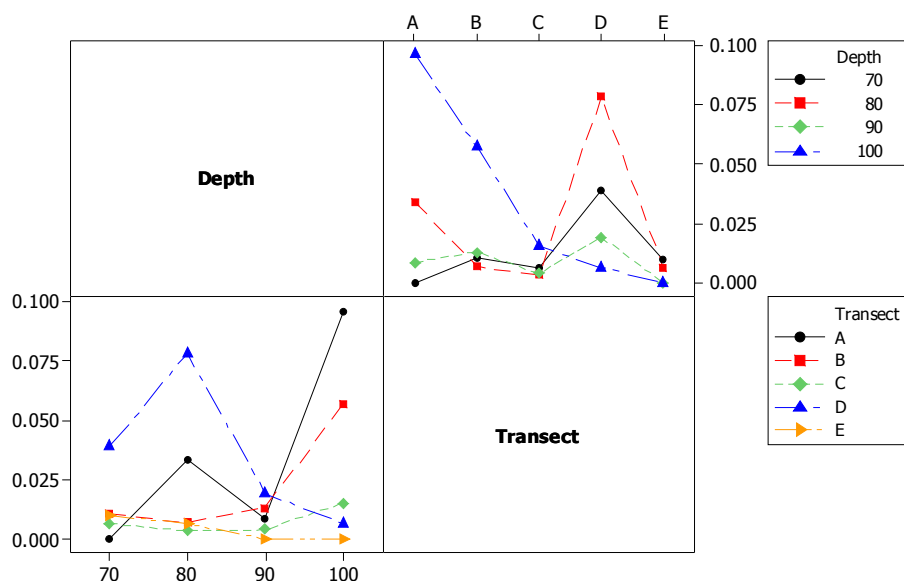


Figure A. 42 Interaction plots for changes in *Celleporina grandis* coverage over *depth* and *transect*.

Table A. 11 Tukey's multiple comparison tests for differences in *Celleporina grandis* cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.111 -0.044																		
A90	0.086 -0.069	0.050 -0.101																	
A100	0.168 0.024	0.132 -0.008	0.158 0.018																
B70	0.081 -0.061	0.067 -0.071	0.067 -0.071	0.149 0.023															
B80	0.078 -0.065	0.042 -0.096	0.071 -0.068	0.153 0.026	0.059 -0.066														
B90	0.085 -0.059	0.049 -0.091	0.074 -0.065	0.147 0.019	0.065 -0.060	0.069 -0.057													
B100	0.132 -0.018	0.096 -0.050	0.122 -0.024	0.028 -0.106	0.113 -0.019	0.117 -0.016	0.111 -0.023												
C70	0.080 -0.067	0.099 -0.044	0.074 -0.069	0.155 0.024	0.061 -0.069	0.066 -0.065	0.072 -0.059	0.120 -0.018											
C80	0.075 -0.069	0.039 -0.100	0.075 -0.065	0.157 0.029	0.056 -0.070	0.060 -0.067	0.073 -0.054	0.121 -0.013	0.063 -0.069										
C90	0.078 -0.071	0.042 -0.102	0.068 -0.077	0.159 0.026	0.059 -0.072	0.063 -0.069	0.057 -0.076	0.123 -0.016	0.066 -0.071	0.067 -0.066									
C100	0.091 -0.061	0.055 -0.092	0.080 -0.067	-0.013 -0.149	0.072 -0.062	0.076 -0.059	0.070 -0.066	0.029 -0.113	0.079 -0.061	0.080 -0.056	0.082 -0.059								
D70	0.112 -0.034	0.065 -0.076	0.040 -0.101	0.122 -0.007	0.092 -0.035	0.032 -0.096	0.038 -0.090	0.086 -0.049	0.099 -0.034	0.029 -0.100	0.032 -0.102	0.045 -0.092							
D80	0.152 0.005	0.116 -0.027	0.002 -0.142	0.083 -0.048	0.133 0.004	0.137 0.007	0.000 -0.131	0.048 -0.090	0.140 0.005	0.141 0.010	-0.006 -0.143	0.006 -0.133	0.106 -0.027						
D90	0.097 -0.058	0.061 -0.090	0.086 -0.065	0.147 0.007	0.078 -0.060	0.082 -0.057	0.076 -0.064	0.111 -0.035	0.084 -0.059	0.086 -0.054	0.088 -0.057	0.070 -0.078	0.051 -0.090	0.012 -0.131					
D100	0.083 -0.070	0.047 -0.102	0.072 -0.077	-0.021 -0.159	0.064 -0.072	0.068 -0.069	0.062 -0.075	0.021 -0.123	0.071 -0.071	0.072 -0.066	0.074 -0.069	0.064 -0.082	0.037 -0.102	-0.001 -0.143	0.062 -0.087				
E70	0.084 -0.064	0.096 -0.048	0.070 -0.073	0.152 0.021	0.064 -0.065	0.062 -0.068	0.069 -0.063	0.116 -0.022	0.071 -0.064	0.059 -0.072	0.062 -0.074	0.075 -0.064	0.037 -0.095	0.136 0.001	0.081 -0.062	0.067 -0.074			
E80	0.074 -0.062	0.038 -0.093	0.068 -0.063	0.149 0.031	0.054 -0.062	0.058 -0.059	0.066 -0.052	0.114 -0.012	0.061 -0.061	0.062 -0.056	0.059 -0.064	0.073 -0.055	0.027 -0.092	-0.011 -0.133	0.079 -0.053	0.065 -0.064	0.058 -0.065		
E90	0.085 -0.085	0.049 -0.117	0.075 -0.092	0.174 0.018	0.067 -0.088	0.071 -0.085	0.065 -0.091	0.138 -0.024	0.073 -0.086	0.075 -0.081	0.076 -0.084	0.097 -0.066	0.040 -0.118	0.001 -0.158	0.064 -0.102	0.089 -0.076	0.070 -0.090	0.068 -0.081	
E100	0.087 -0.087	0.051 -0.119	0.076 -0.094	-0.016 -0.176	0.069 -0.090	0.073 -0.087	0.067 -0.093	0.026 -0.140	0.075 -0.088	0.077 -0.083	0.078 -0.086	0.068 -0.099	0.042 -0.120	0.003 -0.160	0.066 -0.104	0.078 -0.091	0.072 -0.091	0.070 -0.083	0.092 -0.092

Table A. 12 Analysis of variance for $\text{Log}_{10}(\textit{Hippomenella vellicata})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	<i>df</i>	SS	Adjusted SS	Adjusted MS	<i>F</i>	<i>P</i>
Depth	3	0.03	0.02	0.01	0.94	0.419
Transect	4	0.06	0.05	0.01	1.81	0.126
Depth*Transect	12	0.13	0.13	0.01	1.65	0.076
Error	459	2.91	2.91	0.01		
Total	478	3.13				

$s = 0.079691$

$r^2 = 6.94\%$

Table A. 13 Analysis of variance for $\text{Log}_{10}(\textit{Cellaria immersa})$ using Adjusted SS tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	<i>df</i>	SS	Adjusted SS	Adjusted MS	<i>F</i>	<i>P</i>
Depth	3	0.00	0.01	0.00	0.88	0.450
Transect	4	0.01	0.01	0.00	0.90	0.463
Depth*Transect	12	0.03	0.03	0.00	1.18	0.295
Error	459	0.92	0.92	0.00		
Total	478	0.96				

$s = 0.0446692$

$r^2 = 4.16\%$

Table A. 14 Analysis of variance for $\text{Log}_{10}(\text{Mollusca})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.96	0.98	0.33	27.29	<0.001
Transect	4	0.27	0.20	0.05	4.12	0.003
Depth*Transect	12	0.95	0.95	0.08	6.65	<0.001
Error	459	5.49	5.49	0.01		
Total	478	7.67				

$s = 0.109316$

$r^2 = 28.51\%$

Table A. 15 Regression analysis for $\text{Log}_{10}(\text{Mollusca})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (DV(A), DV(B), DV(D), DV(E)), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation..

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.96	0.79	0.26	22.02	<0.001
DV(A)	1	0.02	0.12	0.12	9.85	0.002
DV(B)	1	0.00	0.07	0.07	5.86	0.016
DV(D)	1	0.13	0.16	0.16	13.70	<0.001
DV(E)	1	0.12	0.04	0.04	2.95	0.086
Depth*DV(A)	3	0.12	0.26	0.09	7.25	<0.001
Depth*DV(B)	3	0.08	0.08	0.03	2.25	0.082
Depth*DV(D)	3	0.36	0.46	0.15	12.97	<0.001
Depth*DV(E)	3	0.40	0.40	0.13	11.13	<0.001
Error	459	5.49	5.49	0.01		
Total	478	7.67				

$s = 0.109316$

$r^2 = 28.51\%$

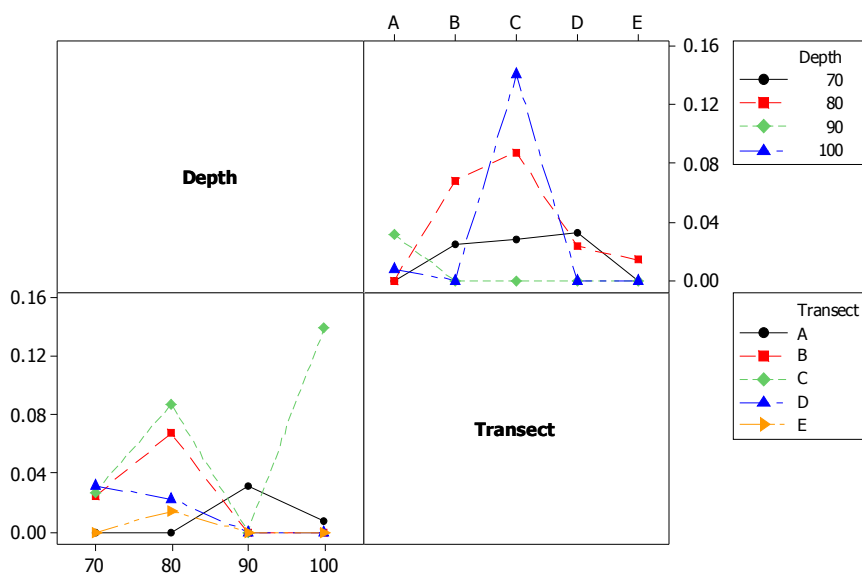


Figure A. 43 Interaction plot for changes in Molluscan coverage over *depth* and *transect*.

Table A. 16 Tukey’s multiple comparison tests for differences in Molluscan cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.243 -0.008																		
A90	0.098 -0.153	-0.023 -0.268																	
A100	0.078 -0.156	-0.043 -0.270	0.102 -0.125																
B70	0.128 -0.103	0.072 -0.152	0.072 -0.152	0.051 -0.153															
B80	0.151 -0.081	0.030 -0.195	0.050 -0.175	0.028 -0.177	0.124 -0.078														
B90	0.099 -0.135	-0.022 -0.249	0.123 -0.104	0.082 -0.125	0.072 -0.132	0.050 -0.156													
B100	0.087 -0.157	-0.034 -0.271	0.111 -0.126	0.113 -0.105	0.060 -0.155	0.038 -0.179	0.091 -0.127												
C70	0.086 -0.153	0.267 0.035	0.122 -0.111	0.101 -0.112	0.059 -0.150	0.174 -0.037	0.122 -0.091	0.110 -0.114											
C80	0.060 -0.174	-0.061 -0.288	0.143 -0.084	0.122 -0.085	0.033 -0.171	0.010 -0.195	0.143 -0.064	0.131 -0.087	0.083 -0.130										
C90	0.074 -0.168	-0.047 -0.282	0.098 -0.137	0.116 -0.100	0.047 -0.165	0.025 -0.189	0.079 -0.137	0.125 -0.101	0.097 -0.124	0.118 -0.098									
C100	0.107 -0.139	-0.014 -0.253	0.131 -0.108	0.133 -0.087	0.081 -0.137	0.058 -0.161	0.112 -0.108	0.135 -0.096	0.131 -0.096	0.152 -0.069	0.145 -0.083								
D70	0.277 0.042	0.073 -0.156	-0.073 -0.301	-0.094 -0.303	0.250 0.045	-0.021 -0.228	-0.073 -0.282	-0.085 -0.305	0.300 0.085	-0.112 -0.321	-0.098 -0.315	-0.064 -0.286							
D80	0.177 -0.063	0.056 -0.177	0.032 -0.201	0.011 -0.203	0.150 -0.060	0.128 -0.084	0.032 -0.181	0.019 -0.204	0.200 -0.019	0.221 0.008	0.007 -0.215	0.040 -0.186	0.005 -0.210						
D90	0.053 -0.198	-0.068 -0.313	0.077 -0.168	0.147 -0.080	0.027 -0.197	0.005 -0.220	0.059 -0.168	0.156 -0.081	0.077 -0.156	0.098 -0.129	0.092 -0.143	0.176 -0.063	-0.118 -0.346	-0.013 -0.246					
D100	0.063 -0.186	-0.058 -0.300	0.087 -0.155	0.089 -0.135	0.036 -0.184	0.014 -0.208	0.068 -0.156	0.090 -0.143	0.086 -0.143	0.107 -0.117	0.101 -0.131	0.072 -0.164	-0.109 -0.334	-0.004 -0.234	0.132 -0.110				
E70	0.151 -0.088	0.202 -0.030	0.057 -0.176	0.036 -0.177	0.124 -0.085	0.109 -0.102	0.057 -0.156	0.045 -0.179	0.175 -0.045	0.018 -0.195	0.032 -0.189	0.066 -0.161	-0.020 -0.235	0.135 -0.084	0.012 -0.221	0.021 -0.208			
E80	0.215 -0.006	0.094 -0.119	-0.026 -0.239	-0.048 -0.240	0.187 -0.002	0.164 -0.026	-0.027 -0.218	-0.038 -0.242	0.237 0.039	0.258 0.066	-0.051 -0.252	-0.017 -0.224	0.042 -0.152	0.147 -0.052	-0.071 -0.284	-0.062 -0.271	0.172 -0.026		
E90	0.055 -0.221	-0.065 -0.335	0.080 -0.190	0.171 -0.083	0.030 -0.220	0.008 -0.244	0.062 -0.192	0.179 -0.084	0.080 -0.179	0.101 -0.153	0.094 -0.166	0.199 -0.065	-0.115 -0.370	-0.011 -0.269	0.125 -0.145	0.155 -0.113	0.015 -0.244	-0.067 -0.308	
E100	0.050 -0.232	-0.071 -0.347	0.074 -0.202	0.078 -0.182	0.025 -0.232	0.003 -0.256	0.056 -0.204	0.078 -0.190	0.074 -0.191	0.096 -0.164	0.089 -0.178	0.060 -0.211	-0.120 -0.382	-0.016 -0.281	0.119 -0.157	0.107 -0.166	0.009 -0.256	-0.072 -0.320	0.141 -0.158

Table A. 17 Analysis of variance for $\text{Log}_{10}(\text{Actiniaria})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.10	0.12	0.04	2.86	0.037
Transect	4	0.26	0.30	0.07	5.18	<0.001
Depth*Transect	12	0.30	0.30	0.03	1.76	0.051
Error	459	6.55	6.55	0.01		
Total	478	7.21				

$s = 0.11944$

$r^2 = 9.2\%$

Table A. 18 Regression analysis for $\text{Log}_{10}(\text{Actiniaria})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (DV(A), DV(B), DV(D), DV(E)), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.10	0.14	0.05	3.19	0.023
DV(A)	1	0.19	0.19	0.19	13.13	<0.001
DV(B)	1	0.07	0.04	0.04	2.46	0.117
DV(D)	1	0.00	0.00	0.00	0.07	0.793
DV(E)	1	0.00	0.00	0.00	0.32	0.573
Depth*DV(A)	3	0.13	0.17	0.06	3.90	0.009
Depth*DV(B)	3	0.12	0.11	0.04	2.60	0.052
Depth*DV(D)	3	0.03	0.02	0.01	0.42	0.738
Depth*DV(E)	3	0.02	0.02	0.01	0.48	0.697
Error	459	6.55	6.55	0.01		
Total	478	7.21				

$s = 0.11944$

$r^2 = 9.2\%$

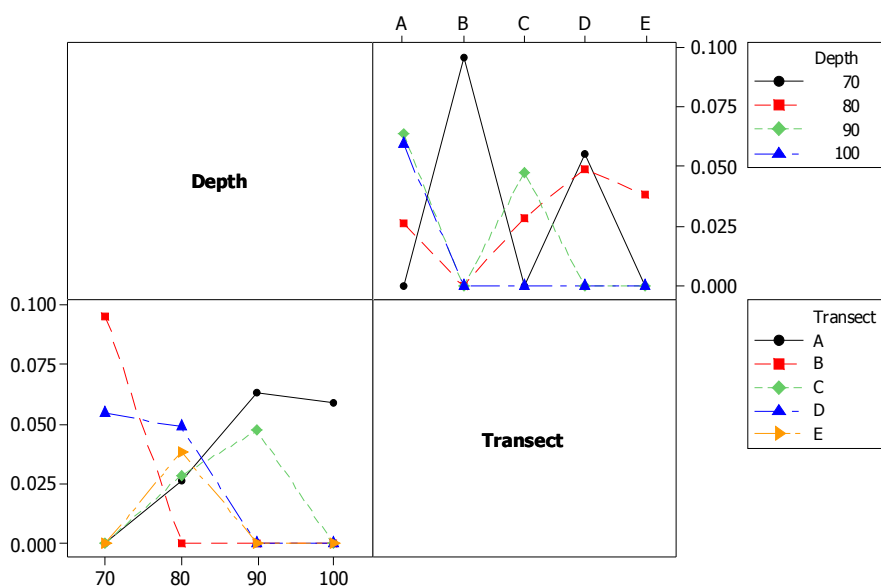


Figure A. 44 Interaction plot for changes in Actiniarian coverage over *depth* and *transect*.

Table A. 19 Tukey’s multiple comparison tests for differences in Actinarian cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.099 -0.176																		
A90	0.071 -0.204	0.106 -0.162																	
A100	-0.012 -0.268	0.023 -0.225	0.051 -0.197																
B70	0.071 -0.182	0.111 -0.133	0.111 -0.133	0.027 -0.195															
B80	0.028 -0.226	0.063 -0.183	0.155 -0.091	0.071 -0.153	0.067 -0.154														
B90	0.039 -0.217	0.074 -0.174	0.102 -0.146	0.062 -0.164	0.078 -0.145	0.122 -0.102													
B100	-0.022 -0.288	0.013 -0.245	0.041 -0.218	0.104 -0.134	0.018 -0.217	0.062 -0.174	0.053 -0.185												
C70	-0.016 -0.277	0.234 -0.019	0.207 -0.047	0.123 -0.110	0.024 -0.205	0.163 -0.068	0.174 -0.059	0.114 -0.131											
C80	0.018 -0.238	0.053 -0.195	0.167 -0.081	0.083 -0.143	0.057 -0.165	0.101 -0.123	0.134 -0.092	0.074 -0.164	0.153 -0.080										
C90	0.001 -0.263	0.036 -0.220	0.064 -0.192	0.109 -0.126	0.041 -0.191	0.085 -0.149	0.076 -0.160	0.100 -0.147	0.136 -0.105	0.097 -0.139									
C100	0.019 -0.250	0.054 -0.207	0.082 -0.180	0.145 -0.097	0.059 -0.179	0.103 -0.136	0.094 -0.147	0.165 -0.087	0.155 -0.093	0.115 -0.126	0.140 -0.110								
D70	0.001 -0.256	0.214 -0.036	0.186 -0.064	0.102 -0.126	0.040 -0.184	0.142 -0.085	0.153 -0.076	0.093 -0.147	0.136 -0.099	0.132 -0.096	0.115 -0.122	0.134 -0.110							
D80	-0.005 -0.266	0.030 -0.224	0.196 -0.058	0.112 -0.121	0.035 -0.195	0.079 -0.152	0.163 -0.070	0.103 -0.142	0.131 -0.109	0.091 -0.142	0.126 -0.116	0.144 -0.104	0.110 -0.125						
D90	0.029 -0.246	0.064 -0.204	0.092 -0.176	0.093 -0.155	0.069 -0.175	0.113 -0.133	0.104 -0.144	0.083 -0.175	0.165 -0.089	0.125 -0.123	0.150 -0.106	0.124 -0.138	0.144 -0.106	0.154 -0.100					
D100	0.023 -0.249	0.058 -0.206	0.086 -0.178	0.149 -0.095	0.063 -0.178	0.108 -0.135	0.098 -0.146	0.170 -0.086	0.159 -0.092	0.119 -0.125	0.145 -0.108	0.132 -0.126	0.138 -0.108	0.148 -0.103	0.128 -0.136				
E70	0.002 -0.260	0.217 -0.037	0.189 -0.065	0.106 -0.127	0.041 -0.188	0.145 -0.086	0.156 -0.077	0.096 -0.148	0.137 -0.102	0.135 -0.098	0.119 -0.123	0.137 -0.111	0.116 -0.119	0.113 -0.126	0.147 -0.107	0.141 -0.109			
E80	0.015 -0.226	0.050 -0.183	0.155 -0.077	0.071 -0.139	0.053 -0.153	0.097 -0.111	0.122 -0.088	0.062 -0.160	0.149 -0.068	0.109 -0.101	0.085 -0.135	0.103 -0.123	0.128 -0.084	0.138 -0.079	0.113 -0.120	0.108 -0.122	0.131 -0.085		
E90	-0.004 -0.306	0.032 -0.263	0.059 -0.236	0.154 -0.123	0.038 -0.236	0.082 -0.194	0.073 -0.204	0.143 -0.143	0.133 -0.150	0.094 -0.184	0.118 -0.166	0.184 -0.105	0.112 -0.167	0.122 -0.161	0.101 -0.194	0.188 -0.104	0.115 -0.167	0.083 -0.181	
E100	-0.001 -0.309	0.035 -0.267	0.063 -0.239	0.127 -0.157	0.041 -0.240	0.085 -0.197	0.076 -0.208	0.147 -0.147	0.136 -0.153	0.097 -0.187	0.122 -0.170	0.109 -0.187	0.116 -0.170	0.125 -0.164	0.105 -0.197	0.107 -0.191	0.119 -0.171	0.086 -0.185	0.163 -0.163

Table A. 20 Analysis of variance for $\text{Log}_{10}(\text{Crustacea})$ using Adjusted SS for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.01	0.01	0.00	1.80	0.147
Transect	4	0.03	0.02	0.00	4.74	0.001
Depth*Transect	12	0.03	0.03	0.00	2.17	0.012
Error	459	0.48	0.48	0.00		
Total	478	0.55				

$s = 0.032203$

$r^2 = 13.41\%$

Table A. 21 Regression analysis for $\text{Log}_{10}(\text{Crustacea})$ using Adjusted SS for tests with factors of *depth*, dummy variables (DV) for *transect* (DV(A), DV(B), DV(D), DV(E)), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation..

Source of variation	df	SS	Adjusted SS	Adjusted MS	F	P
Depth	3	0.01	0.01	0.00	2.08	0.102
DV(A)	1	0.01	0.00	0.00	0.00	0.952
DV(B)	1	0.00	0.00	0.00	1.40	0.238
DV(D)	1	0.00	0.00	0.00	2.28	0.132
DV(E)	1	0.03	0.02	0.02	14.81	<0.001
Depth*DV(A)	3	0.00	0.00	0.00	1.18	0.318
Depth*DV(B)	3	0.01	0.00	0.00	0.95	0.416
Depth*DV(D)	3	0.00	0.00	0.00	0.69	0.558
Depth*DV(E)	3	0.01	0.01	0.00	4.45	0.004
Error	459	0.48	0.48	0.00		
Total	478	0.55				

$s = 0.032203$

$r^2 = 13.41\%$

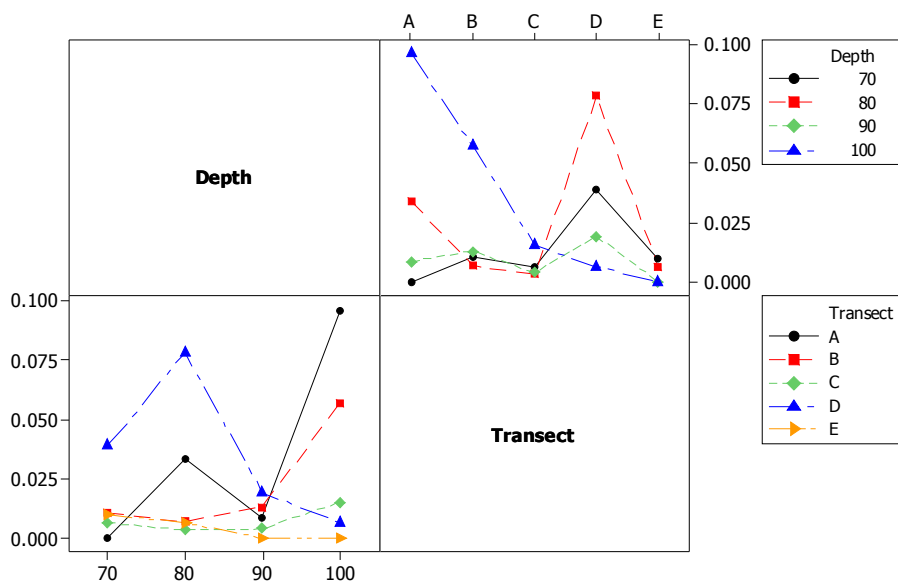


Figure A. 45 Interaction plot for changes in Crustacean coverage over *depth* and *transect*.

Table A. 22 Tukey’s multiple comparison tests for differences in Crustacean cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.030 -0.044																		
A90	0.025 -0.049	0.032 -0.040																	
A100	0.023 -0.046	0.029 -0.038	0.033 -0.033																
B70	0.022 -0.046	0.033 -0.033	0.033 -0.033	0.030 -0.030															
B80	0.035 -0.034	0.041 -0.025	0.021 -0.046	0.018 -0.043	0.042 -0.017														
B90	0.049 -0.020	0.055 -0.012	0.059 -0.007	0.005 -0.056	0.056 -0.004	0.044 -0.017													
B100	0.024 -0.048	0.031 -0.039	0.035 -0.035	0.032 -0.032	0.032 -0.032	0.019 -0.044	0.006 -0.058												
C70	0.024 -0.047	0.039 -0.030	0.034 -0.034	0.031 -0.031	0.031 -0.031	0.044 -0.019	0.057 -0.005	0.033 -0.033											
C80	0.023 -0.046	0.029 -0.038	0.033 -0.033	0.030 -0.030	0.030 -0.030	0.018 -0.043	0.056 -0.005	0.032 -0.032	0.031 -0.031										
C90	0.037 -0.035	0.043 -0.026	0.047 -0.022	0.019 -0.045	0.044 -0.018	0.032 -0.031	0.019 -0.045	0.021 -0.046	0.045 -0.020	0.045 -0.019									
C100	0.029 -0.044	0.035 -0.035	0.040 -0.031	0.037 -0.028	0.036 -0.028	0.024 -0.040	0.011 -0.054	0.038 -0.030	0.038 -0.029	0.037 -0.028	0.025 -0.042								
D70	0.037 -0.032	0.024 -0.044	0.019 -0.048	0.016 -0.045	0.045 -0.016	0.028 -0.033	0.042 -0.019	0.018 -0.047	0.046 -0.017	0.016 -0.045	0.030 -0.034	0.023 -0.043							
D80	0.036 -0.035	0.042 -0.027	0.022 -0.046	0.019 -0.043	0.043 -0.019	0.031 -0.032	0.045 -0.017	0.021 -0.045	0.044 -0.020	0.043 -0.019	0.033 -0.032	0.026 -0.041	0.029 -0.034						
D90	0.043 -0.031	0.049 -0.023	0.054 -0.018	0.016 -0.051	0.051 -0.015	0.038 -0.028	0.025 -0.042	0.017 -0.052	0.052 -0.017	0.051 -0.016	0.039 -0.030	0.022 -0.048	0.037 -0.030	0.040 -0.029					
D100	0.026 -0.047	0.033 -0.039	0.037 -0.034	0.034 -0.032	0.034 -0.031	0.022 -0.044	0.008 -0.057	0.036 -0.033	0.035 -0.032	0.034 -0.032	0.023 -0.045	0.032 -0.038	0.020 -0.046	0.023 -0.044	0.019 -0.052				
E70	0.050 -0.021	0.012 -0.056	0.008 -0.061	0.005 -0.058	0.057 -0.004	0.017 -0.045	0.031 -0.032	0.007 -0.059	0.059 -0.006	0.005 -0.058	0.019 -0.046	0.011 -0.055	0.044 -0.020	0.018 -0.047	0.025 -0.043	0.009 -0.059			
E80	0.063 -0.002	0.069 0.006	-0.010 -0.073	-0.014 -0.070	0.070 0.014	0.057 0.001	0.012 -0.044	-0.012 -0.072	0.071 0.013	0.070 0.014	0.001 -0.059	-0.007 -0.068	0.056 -0.001	0.059 0.001	0.007 -0.056	-0.010 -0.071	0.045 -0.014		
E90	0.036 -0.045	0.043 -0.037	0.047 -0.032	0.030 -0.045	0.044 -0.030	0.032 -0.042	0.019 -0.056	0.031 -0.046	0.045 -0.031	0.045 -0.030	0.033 -0.044	0.036 -0.042	0.030 -0.045	0.033 -0.043	0.029 -0.050	0.033 -0.045	0.019 -0.057	0.001 -0.070	
E100	0.048 -0.036	0.054 -0.027	0.058 -0.023	0.056 -0.021	0.056 -0.020	0.043 -0.033	0.030 -0.047	0.057 -0.022	0.057 -0.021	0.056 -0.021	0.044 -0.034	0.053 -0.027	0.042 -0.035	0.045 -0.033	0.041 -0.041	0.057 -0.024	0.030 -0.048	0.012 -0.061	0.054 -0.034

Table A. 23 Analysis of variance for $\text{Log}_{10}(\text{Polychaeta})$ using Adjusted *SS* for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	<i>df</i>	<i>SS</i>	Adjusted <i>SS</i>	Adjusted <i>MS</i>	<i>F</i>	<i>P</i>
Depth	3	0.01	0.01	0.00	1.30	0.275
Transect	4	0.00	0.00	0.00	0.27	0.897
Depth*Transect	12	0.03	0.03	0.00	1.18	0.295
Error	459	1.04	1.04	0.00		
Total	478	1.08				

$s = 0.0475333$

$r^2 = 4.09\%$

Table A. 24 Analysis of variance for $\text{Log}_{10}(\text{Symbiotic Bryozoa})$ using Adjusted *SS* for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	<i>df</i>	<i>SS</i>	Adjusted <i>SS</i>	Adjusted <i>MS</i>	<i>F</i>	<i>P</i>
Depth	3	0.01	0.01	0.00	3.31	0.020
Transect	4	0.01	0.01	0.00	3.12	0.015
Depth*Transect	12	0.03	0.03	0.00	4.22	<0.001
Error	459	0.30	0.30	0.00		
Total	478	0.35				

$s = 0.0256777$

$r^2 = 14.64\%$

Table A. 25 Regression analysis for $\text{Log}_{10}(\text{Symbiotic Bryozoa})$ using Adjusted *SS* for tests with factors of *depth*, dummy variables (*DV*) for *transect* (*DV(A)*, *DV(B)*, *DV(D)*, *DV(E)*), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	<i>df</i>	<i>SS</i>	Adjusted <i>SS</i>	Adjusted <i>MS</i>	<i>F</i>	<i>P</i>
Depth	3	0.01	0.00	0.00	2.07	0.103
<i>DV(A)</i>	1	0.00	0.00	0.00	0.21	0.646
<i>DV(B)</i>	1	0.00	0.00	0.00	4.12	0.043
<i>DV(D)</i>	1	0.01	0.00	0.00	6.15	0.013
<i>DV(E)</i>	1	0.00	0.00	0.00	0.24	0.623
Depth* <i>DV(A)</i>	3	0.00	0.00	0.00	0.29	0.832
Depth* <i>DV(B)</i>	3	0.02	0.01	0.00	3.56	0.014
Depth* <i>DV(D)</i>	3	0.02	0.01	0.00	6.46	<0.001
Depth* <i>DV(E)</i>	3	0.00	0.00	0.00	0.11	0.956
Error	459	0.30	0.30	0.00		
Total	478	0.35				

$s = 0.0256777$

$r^2 = 14.64\%$

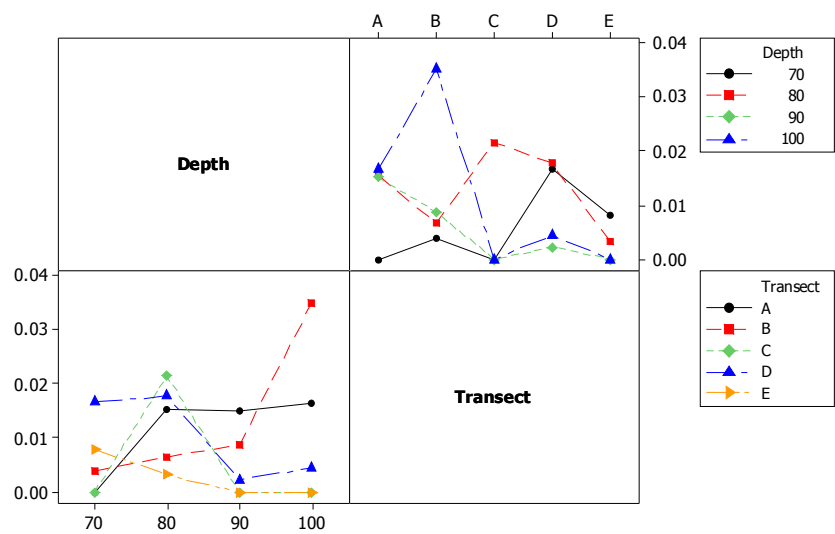


Figure A. 46 Interaction plot for changes in Symbiotic Bryozoan coverage over *depth* and *transect*.

Table A. 26 Tukey’s multiple comparison tests for differences in Symbiotic Bryozoan cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.025 -0.034																		
A90	0.033 -0.026	0.036 -0.021																	
A100	0.022 -0.033	0.026 -0.027	0.018 -0.035																
B70	0.023 -0.031	0.033 -0.019	0.033 -0.019	0.022 -0.025															
B80	0.046 -0.009	0.050 -0.003	0.011 -0.042	0.000 -0.048	0.046 -0.001														
B90	0.030 -0.025	0.034 -0.020	0.026 -0.027	0.017 -0.032	0.030 -0.018	0.008 -0.040													
B100	0.027 -0.031	0.030 -0.025	0.023 -0.033	0.029 -0.022	0.027 -0.024	0.005 -0.046	0.021 -0.030												
C70	0.027 -0.029	0.023 -0.031	0.031 -0.023	0.021 -0.030	0.028 -0.022	0.044 -0.006	0.028 -0.022	0.025 -0.028											
C80	0.020 -0.035	0.024 -0.029	0.037 -0.016	0.027 -0.022	0.020 -0.028	-0.002 -0.050	0.034 -0.014	0.031 -0.020	0.018 -0.032										
C90	0.025 -0.032	0.029 -0.026	0.021 -0.034	0.024 -0.027	0.025 -0.025	0.003 -0.047	0.019 -0.031	0.028 -0.025	0.023 -0.029	0.029 -0.021									
C100	0.027 -0.031	0.031 -0.026	0.023 -0.033	0.029 -0.023	0.027 -0.024	0.005 -0.046	0.021 -0.030	0.027 -0.027	0.025 -0.028	0.031 -0.021	0.028 -0.025								
D70	0.063 0.007	-0.013 -0.066	-0.005 -0.059	-0.016 -0.065	0.063 0.015	0.008 -0.041	-0.008 -0.057	-0.011 -0.063	0.061 0.010	-0.018 -0.067	-0.013 -0.064	-0.011 -0.063							
D80	0.030 -0.027	0.033 -0.021	0.029 -0.026	0.018 -0.032	0.030 -0.020	0.008 -0.042	0.026 -0.024	0.023 -0.030	0.028 -0.024	0.034 -0.016	0.021 -0.031	0.023 -0.030	-0.008 -0.059						
D90	0.024 -0.035	0.028 -0.030	0.020 -0.038	0.027 -0.026	0.024 -0.028	0.002 -0.051	0.018 -0.035	0.032 -0.024	0.022 -0.032	0.028 -0.025	0.025 -0.030	0.032 -0.024	-0.014 -0.068	0.020 -0.034					
D100	0.022 -0.037	0.026 -0.031	0.018 -0.039	0.024 -0.028	0.022 -0.030	0.000 -0.052	0.016 -0.036	0.022 -0.033	0.020 -0.034	0.026 -0.026	0.023 -0.031	0.022 -0.033	-0.016 -0.069	0.018 -0.036	0.027 -0.030				
E70	0.026 -0.031	0.025 -0.029	0.033 -0.022	0.022 -0.028	0.026 -0.023	0.046 -0.004	0.030 -0.020	0.027 -0.026	0.024 -0.027	0.020 -0.030	0.025 -0.027	0.027 -0.026	-0.012 -0.063	0.030 -0.022	0.024 -0.031	0.022 -0.032			
E80	0.019 -0.032	0.023 -0.027	0.035 -0.015	0.024 -0.021	0.019 -0.025	-0.003 -0.047	0.032 -0.014	0.028 -0.019	0.017 -0.029	0.023 -0.022	0.027 -0.021	0.029 -0.020	-0.019 -0.064	0.015 -0.031	0.026 -0.024	0.024 -0.025	0.019 -0.027		
E90	0.027 -0.037	0.031 -0.032	0.024 -0.040	0.030 -0.030	0.028 -0.031	0.006 -0.053	0.022 -0.037	0.034 -0.028	0.026 -0.035	0.032 -0.027	0.029 -0.032	0.034 -0.028	-0.010 -0.070	0.024 -0.037	0.032 -0.031	0.029 -0.034	0.028 -0.033	0.030 -0.027	
E100	0.026 -0.041	0.030 -0.035	0.022 -0.043	0.028 -0.033	0.026 -0.034	0.004 -0.056	0.021 -0.040	0.026 -0.037	0.024 -0.038	0.031 -0.031	0.027 -0.035	0.026 -0.037	-0.012 -0.073	0.022 -0.040	0.031 -0.034	0.032 -0.032	0.026 -0.036	0.028 -0.030	0.033 -0.037

Table A. 27 Analysis of variance for $\text{Log}_{10}(\text{Teleostei})$ using Adjusted *SS* for tests with factors of *depth*, *transect* and the interaction term *depth*transect* as sources of variation.

Source of variation	<i>df</i>	<i>SS</i>	Adjusted <i>SS</i>	Adjusted <i>MS</i>	<i>F</i>	<i>P</i>
Depth	3	0.00	0.01	0.00	1.29	0.277
Transect	4	0.02	0.03	0.01	4.44	0.002
Depth*Transect	12	0.03	0.03	0.00	2.01	0.022
Error	459	0.65	0.65	0.00		
Total	478	0.71				

$s = 0.0376717$

$r^2 = 8.38\%$

Table A. 28 Regression analysis for $\text{Log}_{10}(\text{Teleostei})$ using Adjusted *SS* for tests with factors of *depth*, dummy variables (*DV*) for *transect* (*DV(A)*, *DV(B)*, *DV(D)*, *DV(E)*), and the interaction terms *depth*DV(A)*, *depth*DV(B)*, *depth*DV(D)*, *depth*DV(E)* as sources of variation.

Source of variation	<i>df</i>	<i>SS</i>	Adjusted <i>SS</i>	Adjusted <i>MS</i>	<i>F</i>	<i>P</i>
Depth	3	0.00	0.00	0.00	0.83	0.477
<i>DV(A)</i>	1	0.02	0.02	0.02	13.06	<0.001
<i>DV(B)</i>	1	0.00	0.00	0.00	0.02	0.883
<i>DV(D)</i>	1	0.00	0.00	0.00	0.69	0.408
<i>DV(E)</i>	1	0.00	0.00	0.00	0.02	0.891
Depth* <i>DV(A)</i>	3	0.03	0.02	0.01	4.22	0.006
Depth* <i>DV(B)</i>	3	0.00	0.00	0.00	0.02	0.995
Depth* <i>DV(D)</i>	3	0.00	0.00	0.00	0.53	0.659
Depth* <i>DV(E)</i>	3	0.00	0.00	0.00	0.02	0.997
Error	459	0.65	0.65	0.00		
Total	478	0.71				

$s = 0.0376717$

$r^2 = 8.38\%$

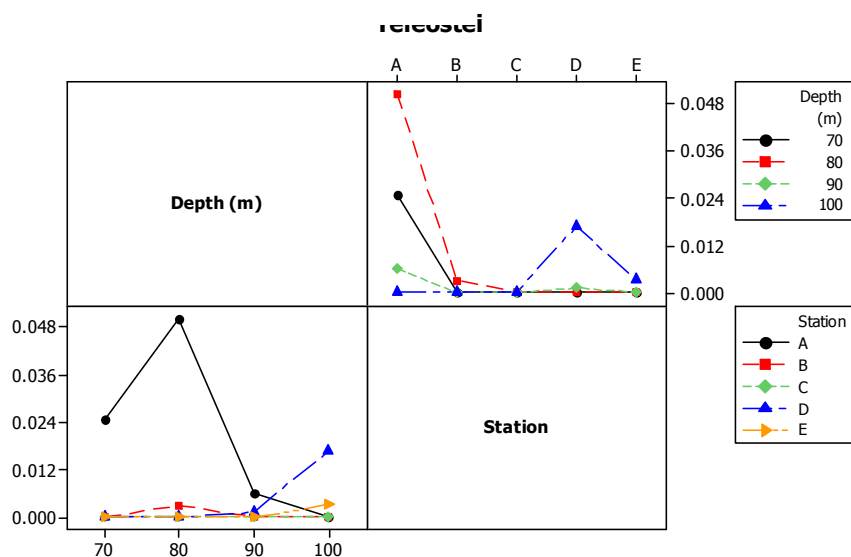


Figure A. 47 Interaction plot for changes in Teleost coverage over *depth* and *transect*.

Table A. 29 Tukey’s multiple comparison tests for differences in Teleost cover between sampling stations. The upper figure is the upper confidence limit and the lower figure is the lower confidence limit.

Station	A70	A80	A90	A100	B70	B80	B90	B100	C70	C80	C90	C100	D70	D80	D90	D100	E70	E80	E90
A80	0.069 -0.018																		
A90	0.025 -0.062	-0.002 -0.086																	
A100	0.016 -0.065	-0.011 -0.089	0.033 -0.045																
B70	0.015 -0.064	0.045 -0.032	0.045 -0.032	0.035 -0.035															
B80	0.018 -0.062	-0.008 -0.086	0.042 -0.036	0.032 -0.038	0.038 -0.032														
B90	0.016 -0.065	-0.011 -0.089	0.033 -0.045	0.036 -0.036	0.035 -0.035	0.032 -0.038													
B100	0.017 -0.067	-0.009 -0.091	0.035 -0.047	0.038 -0.038	0.037 -0.037	0.034 -0.040	0.038 -0.038												
C70	0.017 -0.066	0.090 0.010	0.046 -0.034	0.037 -0.037	0.036 -0.036	0.040 -0.033	0.037 -0.037	0.039 -0.039											
C80	0.016 -0.065	-0.011 -0.089	0.045 -0.033	0.036 -0.036	0.035 -0.035	0.032 -0.038	0.036 -0.036	0.038 -0.038	0.037 -0.037										
C90	0.017 -0.066	-0.010 -0.091	0.034 -0.046	0.037 -0.037	0.037 -0.037	0.034 -0.040	0.037 -0.037	0.039 -0.039	0.038 -0.038	0.037 -0.037									
C100	0.018 -0.067	-0.009 -0.092	0.035 -0.047	0.038 -0.038	0.037 -0.037	0.035 -0.041	0.038 -0.038	0.040 -0.040	0.039 -0.039	0.038 -0.038	0.039 -0.039								
D70	0.016 -0.065	0.090 0.011	0.045 -0.033	0.036 -0.036	0.035 -0.035	0.039 -0.033	0.036 -0.036	0.038 -0.038	0.037 -0.037	0.036 -0.036	0.037 -0.037	0.038 -0.038							
D80	0.017 -0.066	-0.010 -0.090	0.046 -0.034	0.037 -0.037	0.036 -0.036	0.033 -0.040	0.037 -0.037	0.039 -0.039	0.038 -0.038	0.037 -0.037	0.038 -0.038	0.039 -0.039	0.037 -0.037						
D90	0.020 -0.067	-0.007 -0.091	0.037 -0.047	0.038 -0.040	0.040 -0.037	0.037 -0.041	0.040 -0.038	0.040 -0.042	0.041 -0.039	0.040 -0.038	0.042 -0.039	0.040 -0.043	0.041 -0.038	0.041 -0.039					
D100	0.035 -0.051	0.008 -0.075	0.052 -0.031	0.055 -0.022	0.055 -0.021	0.052 -0.024	0.055 -0.022	0.057 -0.023	0.056 -0.023	0.055 -0.022	0.057 -0.023	0.058 -0.024	0.056 -0.022	0.056 -0.023	0.057 -0.026				
E70	0.017 -0.066	0.090 0.010	0.046 -0.034	0.037 -0.037	0.036 -0.036	0.040 -0.033	0.037 -0.037	0.039 -0.039	0.038 -0.038	0.037 -0.037	0.038 -0.038	0.039 -0.039	0.037 -0.037	0.038 -0.038	0.041 -0.039	0.056 -0.023			
E80	0.013 -0.063	-0.014 -0.087	0.043 -0.031	0.033 -0.033	0.032 -0.032	0.030 -0.036	0.033 -0.033	0.035 -0.035	0.034 -0.034	0.033 -0.033	0.035 -0.035	0.036 -0.036	0.033 -0.033	0.034 -0.034	0.038 -0.035	0.053 -0.019	0.034 -0.034		
E90	0.023 -0.072	-0.004 -0.097	0.040 -0.053	0.044 -0.044	0.043 -0.043	0.040 -0.047	0.044 -0.044	0.045 -0.045	0.045 -0.045	0.044 -0.044	0.045 -0.045	0.046 -0.046	0.044 -0.044	0.045 -0.045	0.045 -0.048	0.063 -0.029	0.045 -0.045	0.042 -0.042	
E100	0.027 -0.070	0.000 -0.095	0.045 -0.050	0.048 -0.042	0.048 -0.041	0.045 -0.044	0.048 -0.042	0.049 -0.043	0.049 -0.042	0.048 -0.042	0.049 -0.043	0.050 -0.044	0.048 -0.042	0.049 -0.042	0.049 -0.046	0.033 -0.061	0.049 -0.042	0.046 -0.040	0.055 -0.048