

Appendix 1. Detailed results of multiple regression analysis of the Mode score predicted by the five explanatory variables included in our study of the journal Arctic (1965-2010)

Response Variable: Context

Adj R² = 0.330, F_{21,1091} = 27.02, p < 0.0001

Predictor	Sum Sq	Df	F	P
Intercept	0.822	1	19.313	< 0.0001
Year	0.824	1	19.350	< 0.0001
Year^2	0.828	1	19.441	< 0.0001
Observer	0.560	1	13.154	< 0.001
Region	0.540	5	2.539	0.027
Discipline	16.348	6	64.010	< 0.0001
Organization	2.539	4	14.914	< 0.0001
GlobalChange	0.298	3	2.333	0.073
Residuals	46.440	1091		

Response Variable: Transdisciplinarity

Adj R² = 0.266, F_{21,1091} = 20.22, p < 0.0001

Predictor	Sum Sq	Df	F	P
Intercept	0.191	1	3.851	0.050
Year	0.191	1	3.863	0.050
Year^2	0.193	1	3.898	0.049
Observer	0.014	1	0.282	0.596
Region	0.638	5	2.578	0.025
Discipline	14.022	6	47.238	< 0.0001
Organization	2.295	4	11.597	< 0.0001
GlobalChange	0.395	3	2.663	0.047
Residuals	53.975	1091		

Response Variable: Heterogeneity

Adj R² = 0.271, F_{21,1091} = 20.65, p < 0.0001

Predictor	Sum Sq	Df	F	P
Intercept	0.161	1	3.917	0.048
Year	0.164	1	3.987	0.046
Year^2	0.168	1	4.083	0.044
Observer	0.026	1	0.622	0.431
Region	0.904	5	4.392	< 0.001
Discipline	1.643	6	6.647	< 0.0001
Organization	8.226	4	49.928	< 0.0001
GlobalChange	0.037	3	0.301	0.824
Residuals	44.936	1091		

Response Variable: Reflexivity

Adj R² = 0.276, F_{21,1091} = 21.18, p < 0.0001

Predictor	Sum Sq	Df	F	P
Intercept	0.294	1	4.487	0.034
Year	0.297	1	4.534	0.033
Year^2	0.302	1	4.604	0.032
Observer	1.127	1	17.199	< 0.001
Region	0.582	5	1.776	0.115
Discipline	18.550	6	47.177	< 0.0001
Organization	2.050	4	7.819	< 0.0001
GlobalChange	0.396	3	2.014	0.110
Residuals	71.496	1091		

Response Variable: Non-traditional Quality Control

Adj R² = 0.204, F_{21,1091} = 14.56, p < 0.0001

Predictor	Sum Sq	Df	F	P
Intercept	0.130	1	2.013	0.156
Year	0.132	1	2.043	0.153
Year^2	0.135	1	2.088	0.149
Observer	0.000	1	0.002	0.969
Region	0.800	5	2.469	0.031
Discipline	7.439	6	19.133	< 0.0001
Organization	4.476	4	17.270	< 0.0001
GlobalChange	0.465	3	2.394	0.067
Residuals	70.694	1091		