

APPENDIX 2 - DATA ANALYSIS

Table A2.1: Summary of the linear mixed regression model describing the scaling of standard metabolic rate (SMR J day⁻¹) with body mass (BM, mg), temperature (T, K), sex, salinity and individual variation in baseline level and responses to salinity

log(SMR)			
Predictors	Estimates	CI	p
(Intercept)	31.68	-12.80 – 76.16	0.161
BM [log]	15.01	-16.81 – 46.84	0.353
SEX [M]	25.13	-10.20 – 60.47	0.162
Salinity [4]	-54.84	-94.11 – -15.58	0.007
Salinity [6]	-22.33	-61.62 – 16.95	0.263
-1/kT	0.84	-0.28 – 1.96	0.140
BM [log] × SEX [M]	0.08	-0.85 – 1.01	0.865
BM [log] × Salinity [4]	-0.05	-0.87 – 0.77	0.904
BM [log] × Salinity [6]	-0.26	-1.08 – 0.56	0.534
log(BM):-1/kT	0.37	-0.44 – 1.17	0.369
SEX [M] × Salinity [4]	0.48	-0.37 – 1.32	0.264
SEX [M] × Salinity [6]	0.51	-0.34 – 1.36	0.238
SEXM:-1/kT	0.65	-0.24 – 1.53	0.152
Salinity[4]:-1/kT	-1.39	-2.38 – -0.40	0.006
Salinity[6]:-1/kT	-0.57	-1.56 – 0.42	0.259
Random Effects			
σ^2	1.17		
τ_{00} IDUN	0.05		
τ_{11} IDUN.Salinity	0.00		
ρ_{01} IDUN	-1.00		

N_{IDUN}	54
Observations	158
Marginal R^2 / Conditional R^2	0.236 / NA