Table X. Model selection table…

**Model1 Intercept Predictor Variance Structure df Log Liklihood AICc δAICc Weight**

**δ13C**

**Model C.2 -16.3 Study Site Study Site 33 -1145.79 2360.9 0.00 0.988**

Model C.4 -16.3 Study Site Region+Study Site 37 -1145.79 2369.7 8.85 0.012

Model C.3 -16.3 Study Site Region 22 -1252.81 2551.1 190.21 0.000

Model C.1 -16.3 Study Site None 18 -1354.92 2746.8 385.96 0.000

Model C.null -15.79 None None 3 -1504.74 3015.5 654.65 0.000

**δ15N**

**Model N.2 16.7 Study Site Study Site 33 -1219.45 2508.2 0.00 0.988**

Model N.4 16.7 Study Site Region+Study Site 37 -1219.45 2517.0 8.85 0.012

Model N.3 16.7 Study Site Region 22 -1261.89 2569.2 61.05 0.000

Model N.1 16.7 Study Site None 18 -1290.30 2617.6 109.38 0.000

Model N.null 13.8 None None 3 -1578.62 3163.3 655.09 0.000

1 Models were fit using with the base formula of (Response *(δ15N or δ13C)* ~Study Site, random effect = ~1 | Region, specified variance structure). See methods for further details.





