Top summer model:

Call:

mclogit(formula = cbind(case, strata) ~ tundraHeath.100 + shrub.100 +

water.1000 + elevS.30 + elevS2.30 + vrmS.30 + aspectS.30 +

slopeS.30 + slopeS2.30 + sex, data = df, random = ~1 | id,

control = mclogit.control(epsilon = 0.001, maxit = 100))

Coefficents:

Estimate Std. Error z value Pr(>|z|)

tundraHeath.100 0.703838 0.034504 20.399 < 2e-16 \*\*\*

shrub.100 -0.485689 0.071714 -6.773 1.27e-11 \*\*\*

water.1000 2.761174 0.581354 4.750 2.04e-06 \*\*\*

elevS.30 2.376946 0.110470 21.517 < 2e-16 \*\*\*

elevS2.30 -1.192067 0.062064 -19.207 < 2e-16 \*\*\*

vrmS.30 0.098424 0.004852 20.284 < 2e-16 \*\*\*

aspectS.30 0.310252 0.034557 8.978 < 2e-16 \*\*\*

slopeS.30 0.115660 0.033870 3.415 0.000638 \*\*\*

slopeS2.30 0.059103 0.024072 2.455 0.014080 \*

sexM 0.115021 0.165417 0.695 0.486844

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Co-)Variances:

Grouping level: id

Estimate Std. Error

(Intercept) (Intercept)

(Intercept) 0.08460 0.03143

Null Deviance: 134400

Residual Deviance: 130000

Number of Fisher Scoring iterations: 1

Number of observations: 28050

(1677 observations deleted due to missingness)

Top winter model:

Call:

mclogit(formula = cbind(case, strata) ~ tundraHeath.30 + forest.500 +

shrub.100 + water.30 + vrmS.30 + slopeS.100 + slopeS2.100 +

aspectS.30 + elevS.30 + elevS2.30, data = df, random = ~1 |

id, control = mclogit.control(epsilon = 0.001, maxit = 100))

Coefficents:

Estimate Std. Error z value Pr(>|z|)

tundraHeath.30 0.378756 0.023679 15.995 < 2e-16 \*\*\*

forest.500 -4.081103 0.405961 -10.053 < 2e-16 \*\*\*

shrub.100 -0.409893 0.052942 -7.742 9.77e-15 \*\*\*

water.30 0.220431 0.109376 2.015 0.04387 \*

vrmS.30 0.232218 0.008166 28.436 < 2e-16 \*\*\*

slopeS.100 0.290252 0.074118 3.916 9.00e-05 \*\*\*

slopeS2.100 0.289912 0.051320 5.649 1.61e-08 \*\*\*

aspectS.30 0.792690 0.057828 13.708 < 2e-16 \*\*\*

elevS.30 0.268298 0.092087 2.914 0.00357 \*\*

elevS2.30 -0.643957 0.070562 -9.126 < 2e-16 \*\*\*

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Co-)Variances:

Grouping level: id

Estimate Std. Error

(Intercept) (Intercept)

(Intercept) 0.5204 0.2495

Null Deviance: 77070

Residual Deviance: 73030

Number of Fisher Scoring iterations: 2

Number of observations: 16107

(7115 observations deleted due to missingness)