Year=2010

> with(subset(diffphen,year==2010),Anova(lmer(most\_adv~predator+Individ%in%LokalID+(1|Datum)),type="II"))

Analysis of Deviance Table (Type II Wald chisquare tests)

Response: most\_adv

Chisq Df Pr(>Chisq)

predator 0.7842 1 0.3759

Individ:LokalID 249.9875 20 <2e-16 \*\*\*

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

> with(subset(diffphen,year==2010),summary(lmer(most\_adv~predator+Individ%in%LokalID+(1|Datum))))

Linear mixed model fit by REML t-tests use Satterthwaite approximations to

degrees of freedom [lmerMod]

Formula: most\_adv ~ predator + Individ %in% LokalID + (1 | Datum)

REML criterion at convergence: 6516.3

Scaled residuals:

Min 1Q Median 3Q Max

-3.4671 -0.7384 0.0051 0.8144 2.7804

Random effects:

Groups Name Variance Std.Dev.

Datum (Intercept) 0.3258 0.5707

Residual 1.3666 1.1690

Number of obs: 2000, groups: Datum, 10

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 3.709e+00 2.980e-01 7.600e+00 12.448 2.56e-06 \*\*\*

predator1 3.417e-01 3.859e-01 7.700e+00 0.886 0.40275

Individ:LokalIDAle001 -9.698e-03 3.858e-03 6.172e+02 -2.514 0.01220 \*

Individ:LokalIDAle010 -7.193e-03 3.876e-03 7.007e+02 -1.856 0.06389 .

Individ:LokalIDBor012 -2.435e-03 3.139e-03 1.540e+03 -0.776 0.43815

Individ:LokalIDGöt009a 5.090e-03 3.133e-03 1.456e+03 1.625 0.10446

Individ:LokalIDGöt009b -5.547e-04 3.133e-03 1.456e+03 -0.177 0.85950

Individ:LokalIDGöt016 -1.267e-03 3.133e-03 1.456e+03 -0.405 0.68588

Individ:LokalIDHer003 1.547e-02 2.824e-03 1.801e+03 5.478 4.91e-08 \*\*\*

Individ:LokalIDHer004 2.763e-03 2.824e-03 1.801e+03 0.978 0.32813

Individ:LokalIDHer005 8.357e-03 2.824e-03 1.801e+03 2.959 0.00313 \*\*

Individ:LokalIDLer010 -1.135e-03 3.858e-03 6.172e+02 -0.294 0.76876

Individ:LokalIDMar001 -5.814e-03 2.828e-03 1.839e+03 -2.056 0.03991 \*

Individ:LokalIDPar003 3.523e-03 3.133e-03 1.456e+03 1.125 0.26098

Individ:LokalIDSve001 5.508e-03 2.828e-03 1.839e+03 1.948 0.05157 .

Individ:LokalIDSve005 2.494e-03 2.828e-03 1.839e+03 0.882 0.37796

Individ:LokalIDSve011 -4.177e-03 2.828e-03 1.839e+03 -1.477 0.13979

Individ:LokalIDSve013 9.405e-03 3.139e-03 1.540e+03 2.996 0.00278 \*\*

Individ:LokalIDTra001 6.880e-03 2.828e-03 1.839e+03 2.433 0.01506 \*

Individ:LokalIDTra002 2.787e-02 2.828e-03 1.839e+03 9.857 < 2e-16 \*\*\*

Individ:LokalIDVår004 2.222e-03 3.133e-03 1.456e+03 0.709 0.47832

Individ:LokalIDVår009 6.617e-03 3.133e-03 1.456e+03 2.112 0.03487 \*

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

Year=2010

> with(subset(diffphen,year==2011),Anova(lmer(most\_adv~predator+Individ%in%LokalID+(1|Datum)),type="II"))

Analysis of Deviance Table (Type II Wald chisquare tests)

Response: most\_adv

Chisq Df Pr(>Chisq)

predator 1.012 1 0.3144

Individ:LokalID 96.327 16 1.682e-13 \*\*\*

---

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

> with(subset(diffphen,year==2011),summary(lmer(most\_adv~predator+Individ%in%LokalID+(1|Datum))))

Linear mixed model fit by REML t-tests use Satterthwaite approximations to

degrees of freedom [lmerMod]

Formula: most\_adv ~ predator + Individ %in% LokalID + (1 | Datum)

REML criterion at convergence: 5334.9

Scaled residuals:

Min 1Q Median 3Q Max

-2.6465 -0.7640 0.1115 0.7421 2.4360

Random effects:

Groups Name Variance Std.Dev.

Datum (Intercept) 0.1689 0.411

Residual 1.4782 1.216

Number of obs: 1600, groups: Datum, 10

Fixed effects:

Estimate Std. Error df t value Pr(>|t|)

(Intercept) 4.412e+00 2.348e-01 7.600e+00 18.785 1.29e-07 \*\*\*

predator1 -3.018e-01 3.000e-01 7.200e+00 -1.006 0.346952

Individ:LokalIDAle001 4.846e-03 3.843e-03 1.812e+02 1.261 0.208922

Individ:LokalIDAle010 1.895e-03 3.883e-03 2.315e+02 0.488 0.626054

Individ:LokalIDBor012 3.376e-03 3.883e-03 2.315e+02 0.869 0.385583

Individ:LokalIDGöt009a 5.016e-03 2.905e-03 1.083e+03 1.727 0.084527 .

Individ:LokalIDGöt009b 8.882e-03 2.905e-03 1.083e+03 3.057 0.002289 \*\*

Individ:LokalIDGöt016 4.063e-04 3.843e-03 1.812e+02 0.106 0.915906

Individ:LokalIDHer003 1.076e-02 2.905e-03 1.083e+03 3.703 0.000223 \*\*\*

Individ:LokalIDHer004 -9.110e-03 2.905e-03 1.083e+03 -3.136 0.001761 \*\*

Individ:LokalIDHer005 -2.726e-03 2.905e-03 1.083e+03 -0.938 0.348265

Individ:LokalIDLer010 3.039e-03 2.905e-03 1.083e+03 1.046 0.295781

Individ:LokalIDPar003 -1.040e-02 3.843e-03 1.812e+02 -2.705 0.007473 \*\*

Individ:LokalIDSve013 6.504e-03 3.883e-03 2.315e+02 1.675 0.095274 .

Individ:LokalIDTra001 -1.010e-02 3.213e-03 7.791e+02 -3.143 0.001734 \*\*

Individ:LokalIDTra002 -4.033e-03 3.213e-03 7.791e+02 -1.255 0.209856

Individ:LokalIDVår004 6.135e-03 3.197e-03 6.369e+02 1.919 0.055462 .

Individ:LokalIDVår009 -5.504e-03 3.197e-03 6.369e+02 -1.722 0.085645 .

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