> Anova(fullmod.poly.exp, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **Experiment\_Date**

Chisq Df Pr(>Chisq)

(Intercept) 2137.9641 1 < 2.2e-16 \*\*\*

Site.Lat 126.6738 11 < 2.2e-16 \*\*\*

poly(Year, 2) 4.0190 2 0.134055

Drought 1.7393 1 0.187224

Site.Lat:poly(Year, 2) 29.8908 22 0.121142

Site.Lat:Drought 80.8212 11 1.024e-12 \*\*\*

poly(Year, 2):Drought 4.0187 2 0.134075

Site.Lat:poly(Year, 2):Drought 41.8694 22 0.006483 \*\*

---

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

> Anova(fullmod.poly.wc, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **Water\_Content**

Chisq Df Pr(>Chisq)

(Intercept) 88.8667 1 < 2.2e-16 \*\*\*

Site.Lat 147.2825 11 < 2.2e-16 \*\*\*

poly(Year, 2) 3.4490 2 0.178264

Drought 0.0619 1 0.803460

Site.Lat:poly(Year, 2) 39.9169 22 0.011056 \*

Site.Lat:Drought 32.6431 11 0.000601 \*\*\*

poly(Year, 2):Drought 1.3806 2 0.501434

Site.Lat:poly(Year, 2):Drought 21.3299 22 0.500439

---

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

> Anova(fullmod.poly.SLA, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **SLA**

Chisq Df Pr(>Chisq)

(Intercept) 80.0156 1 < 2.2e-16 \*\*\*

Site.Lat 34.7071 11 0.0002769 \*\*\*

poly(Year, 2) 5.3101 2 0.0702968 .

Drought 0.0092 1 0.9236541

Site.Lat:poly(Year, 2) 32.9626 22 0.0624012 .

Site.Lat:Drought 31.3367 11 0.0009737 \*\*\*

poly(Year, 2):Drought 2.1621 2 0.3392466

Site.Lat:poly(Year, 2):Drought 30.9193 22 0.0977790 .

---

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

> Anova(fullmod.poly.bio, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **Biomass**

Chisq Df Pr(>Chisq)

(Intercept) 50.7878 1 1.029e-12 \*\*\*

Site.Lat 32.5393 11 0.0006246 \*\*\*

poly(Year, 2) 8.0346 2 0.0180016 \*

Drought 31.1068 1 2.442e-08 \*\*\*

Site.Lat:poly(Year, 2) 40.2433 22 0.0101253 \*

Site.Lat:Drought 42.3208 11 1.425e-05 \*\*\*

poly(Year, 2):Drought 0.2133 2 0.8988377

Site.Lat:poly(Year, 2):Drought 42.5133 22 0.0054142 \*\*

---

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

> Anova(fullmod.poly.gs, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **Stomatal\_Conductance**

Chisq Df Pr(>Chisq)

(Intercept) 26.5597 1 2.555e-07 \*\*\*

Site.Lat 18.8327 11 0.06416 .

poly(Year, 2) 0.6612 2 0.71851

Drought 2.3134 1 0.12826

Site.Lat:poly(Year, 2) 19.7537 22 0.59845

Site.Lat:Drought 11.0034 11 0.44298

poly(Year, 2):Drought 0.5297 2 0.76733

Site.Lat:poly(Year, 2):Drought 17.0635 22 0.75985

---

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

> Anova(fullmod.poly.A, type = 3)

Analysis of Deviance Table (Type III Wald chisquare tests)

Response: **Assimilation**

Chisq Df Pr(>Chisq)

(Intercept) 59.6576 1 1.129e-14 \*\*\*

Site.Lat 40.4695 11 2.973e-05 \*\*\*

poly(Year, 2) 1.9060 2 0.38559

Drought 3.3954 1 0.06538 .

Site.Lat:poly(Year, 2) 16.3586 22 0.79770

Site.Lat:Drought 11.1426 11 0.43140

poly(Year, 2):Drought 1.3916 2 0.49867

Site.Lat:poly(Year, 2):Drought 19.2708 22 0.62855

---

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