Anova of SBW-balsam fir results (past/present)

Emergence date (past/present data)

```
##              Df Sum Sq Mean Sq F value  Pr(>F)
## Site          5   3374   674.8   17.89 3.2e-13 ***
## Residuals   120   4527    37.7
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Emergence and Site
##
##       Site1   Site2   Site3   Site4   Site5
## Site2 0.20440 -       -       -       -
## Site3 1.00000 0.64190 -       -       -
## Site4 0.00574 1.00000 0.02647 -       -
## Site5 2.0e-09 0.00021 2.0e-08 0.01493 -
## Site6 1.5e-08 0.00102 1.4e-07 0.05283 1.00000
##
## P value adjustment method: bonferroni
```

Budburst date (past/present data)

```
##              Df Sum Sq Mean Sq F value   Pr(>F)
## Site          5   1332  266.43   21.72 1.94e-15 ***
## Residuals   120   1472   12.26
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Budburst and Site
##
##       Site1   Site2   Site3   Site4   Site5
## Site2 0.21247 -       -       -       -
## Site3 1.00000 1.00000 -       -       -
## Site4 0.00062 1.00000 0.01185 -       -
## Site5 6.5e-09 0.00050 3.5e-07 0.18502 -
## Site6 3.1e-12 8.8e-07 2.2e-10 0.00155 1.00000
##
## P value adjustment method: bonferroni
```

Mismatch (past/present data)

```
##              Df Sum Sq Mean Sq F value  Pr(>F)
## Site          5  545.7  109.13   11.08 8.7e-09 ***
```

```
## Residuals   120 1182.1    9.85
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Mismatch and Site
##
##       Site1   Site2  Site3   Site4  Site5
## Site2 0.5382  -      -       -      -
## Site3 1.0000  0.5175 -       -      -
## Site4 0.2684  1.0000 0.2572  -      -
## Site5 1.4e-07 0.0014 1.3e-07 0.0038 -
## Site6 0.0042  1.0000 0.0039  1.0000 0.2517
##
## P value adjustment method: bonferroni
```

Emergence date (RCP 2.6)

```
##               Df Sum Sq Mean Sq F value Pr(>F)
## Site           5 305237   61047    3334 <2e-16 ***
## Residuals   7194 131707      18
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Emergence and Site
##
##       Site1  Site2  Site3  Site4  Site5
## Site2 <2e-16 -      -      -      -
## Site3 <2e-16 <2e-16 -      -      -
## Site4 <2e-16 <2e-16 <2e-16 -      -
## Site5 <2e-16 <2e-16 <2e-16 <2e-16 -
## Site6 <2e-16 <2e-16 <2e-16 <2e-16 <2e-16
##
## P value adjustment method: bonferroni
```

Budburst date (RCP 2.6)

```
##               Df Sum Sq Mean Sq F value Pr(>F)
## Site           5  94260   18852    2896 <2e-16 ***
## Residuals   7194  46827       7
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Budburst and Site
##
##       Site1  Site2  Site3  Site4  Site5
## Site2 <2e-16 -      -      -      -
## Site3 <2e-16 <2e-16 -      -      -
```

```
## Site4 <2e-16 <2e-16 <2e-16 -      -
## Site5 <2e-16 <2e-16 <2e-16 <2e-16 -
## Site6 <2e-16 <2e-16 <2e-16 <2e-16 1
##
## P value adjustment method: bonferroni
```

Mismatch (RCP 2.6)

```
##               Df Sum Sq Mean Sq F value Pr(>F)
## Site           5  66174   13235    2316 <2e-16 ***
## Residuals   7194  41116       6
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
##  Pairwise comparisons using t tests with pooled SD
##
## data:  Mismatch and Site
##
##       Site1  Site2  Site3  Site4  Site5
## Site2 <2e-16 -      -      -      -
## Site3 <2e-16 <2e-16 -      -      -
## Site4 <2e-16 <2e-16 <2e-16 -      -
## Site5 <2e-16 <2e-16 <2e-16 <2e-16 -
## Site6 <2e-16 <2e-16 <2e-16 <2e-16 <2e-16
##
## P value adjustment method: bonferroni
```