Anova (total)

## 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)   
## rcp26$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: rcp26$Emergence and rcp26$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)   
## rcp26$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: rcp26$Budburst and rcp26$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)   
## rcp26$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: rcp26$Mismatch and rcp26$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

## Emergence date (RCP 4.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp45$Site 5 139304 27861 1045 <2e-16 \*\*\*  
## Residuals 7194 191768 27   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp45$Emergence and rcp45$Site   
##   
## Site1 Site2 Site3 Site4 Site5  
## Site2 <2e-16 - - - -   
## Site3 <2e-16 <2e-16 - - -   
## Site4 <2e-16 1.000 <2e-16 - -   
## Site5 <2e-16 <2e-16 <2e-16 <2e-16 -   
## Site6 <2e-16 <2e-16 <2e-16 <2e-16 0.006  
##   
## P value adjustment method: bonferroni

## Budburst date (RCP 4.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp45$Site 5 51477 10295 1046 <2e-16 \*\*\*  
## Residuals 7194 70813 10   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp45$Budburst and rcp45$Site   
##   
## Site1 Site2 Site3 Site4 Site5   
## Site2 <2e-16 - - - -   
## Site3 <2e-16 <2e-16 - - -   
## Site4 <2e-16 0.62 <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

## Mismatch (RCP 4.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp45$Site 5 23457 4691 651.4 <2e-16 \*\*\*  
## Residuals 7194 51815 7   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp45$Mismatch and rcp45$Site   
##   
## Site1 Site2 Site3 Site4 Site5   
## Site2 <2e-16 - - - -   
## Site3 <2e-16 <2e-16 - - -   
## Site4 <2e-16 0.22 <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

## Emergence date (RCP 8.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp85$Site 5 155376 31075 727.7 <2e-16 \*\*\*  
## Residuals 7194 307197 43   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp85$Emergence and rcp85$Site   
##   
## Site1 Site2 Site3 Site4 Site5  
## Site2 <2e-16 - - - -   
## Site3 <2e-16 <2e-16 - - -   
## Site4 <2e-16 0.202 <2e-16 - -   
## Site5 <2e-16 <2e-16 <2e-16 <2e-16 -   
## Site6 <2e-16 <2e-16 <2e-16 <2e-16 0.014  
##   
## P value adjustment method: bonferroni

## Budburst date (RCP 8.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp85$Site 5 58046 11609 690.5 <2e-16 \*\*\*  
## Residuals 7194 120951 17   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp85$Budburst and rcp85$Site   
##   
## Site1 Site2 Site3 Site4 Site5   
## Site2 < 2e-16 - - - -   
## Site3 8.2e-16 < 2e-16 - - -   
## Site4 < 2e-16 0.0097 < 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

## Mismatch (RCP 8.5)

## Df Sum Sq Mean Sq F value Pr(>F)   
## rcp85$Site 5 25363 5073 572.3 <2e-16 \*\*\*  
## Residuals 7194 63763 9   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

##   
## Pairwise comparisons using t tests with pooled SD   
##   
## data: rcp85$Mismatch and rcp85$Site   
##   
## Site1 Site2 Site3 Site4 Site5   
## Site2 < 2e-16 - - - -   
## Site3 < 2e-16 < 2e-16 - - -   
## Site4 < 2e-16 1 < 2e-16 - -   
## Site5 < 2e-16 < 2e-16 < 2e-16 < 2e-16 -   
## Site6 < 2e-16 < 2e-16 < 2e-16 < 2e-16 1.1e-11  
##   
## P value adjustment method: bonferroni