**Ring mean, daily average photosynthetic gas exchange data for the CO2\*precipitation experiment (2009-2011) are presented in the following files:**

‘2009\_daily\_avg\_gas\_exchange.csv’

‘2010\_daily\_avg\_gas\_exchange.csv’

‘2011\_daily\_avg\_gas\_exchange.csv’

**The .csv files contain the following columns:**

A: Obs (observation number)

B: block (experimental replicate)

C: DOY (Julian date or day of year)

D: CO2 (CO2 treatment; 385=ambient CO2; 585=elevated CO2)

E: H2O (precipitation treatment; con=control precipitation; dry=reduced precipitation)

F: ring (treatment plot)

G: cica (ratio of leaf intercellular CO2: atmospheric CO2; Ci/Ca)

H: Photo (photosynthetic carbon assimilation rate; μmol m-2 s-1)

I: Cond (stomatal conductance; mol m-2 s-1)

J: Ci (leaf intercellular CO2 concentration; μmol m-2 s-1)

**The following files use the mixed procedure in SAS to run mixed model ANOVAs on daily average Ci/Ca (column G), photosynthesis (column H), stomatal conductance (column I), and leaf intercellular CO2 (column J).**

‘driFACE\_2009\_midday\_gas\_exchange\_ANOVAs.sas’

‘driFACE\_2010\_midday\_gas\_exchange\_ANOVAs.sas’

‘driFACE\_2011\_midday\_gas\_exchange\_ANOVAs.sas’

In these ANOVAs, CO2, precipitation treatment, DOY, and their interactions are considered fixed effects, while block is considered a random effect.