



Figure 1. Photosynthetic efficiency in maize fluctuates across the photoperiod. A-E) Violin plots and boxplots showing photosynthetic parameters of light-adapted leaves during constant light and temperature. A) CO₂ assimilation (A) rate. B) Operating efficiency of Photosystem II (Φ PSII). C) Maximum efficiency of PSII photochemistry in the light (F_v'/F_m'). D) Stomatal conductance (gsw) to water vapour. E) intercellular CO₂ concentration (C_i). Boxplot tails indicate 95% confidence intervals and different letters denote statistically significant differences between time-points determined by One-way repeated measures ANOVA, Tukey test ($p \leq 0.05$, $n = 14$ biological replicates). Each datapoint represents one biological replicate. Black and white bars in the x-axis denote dark and light periods respectively.