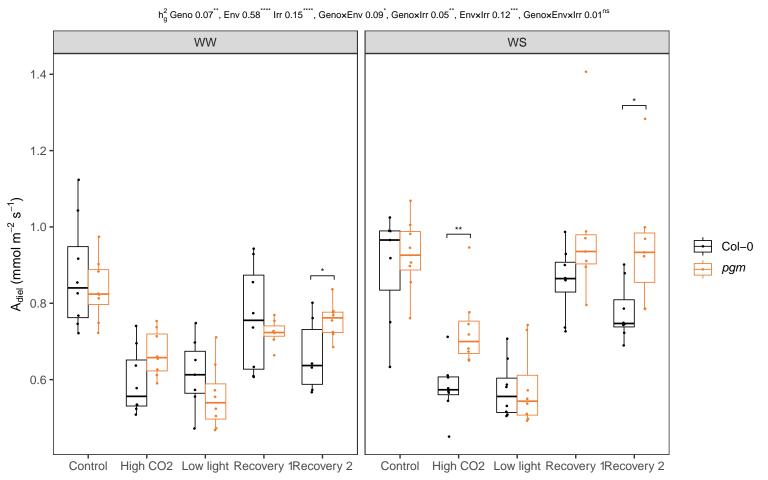
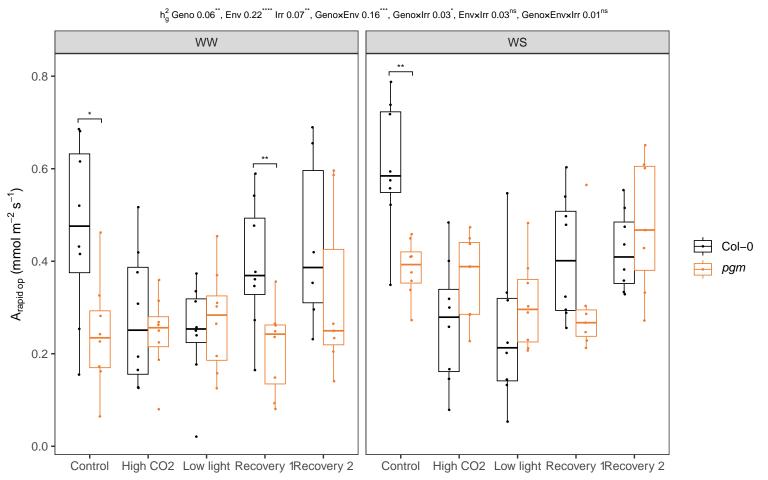
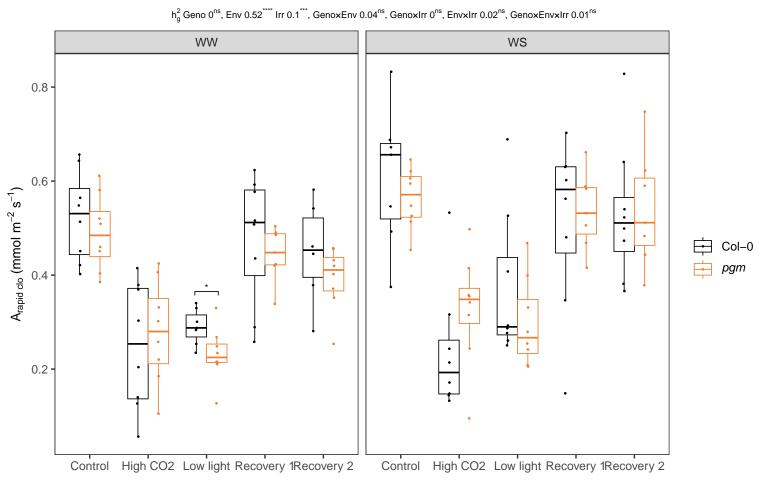
h_{q}^{2} Geno 0.1 Fiv 0.35 Fir 0^{ns} , Geno×Env 0.01 Seno×Irr 0.14 Fiv., Env×Irr 0.03 Seno×Env×Irr 0.01 Seno×Env×Irr 0.01 Fix. WW WS 1.8 - $E_{\rm day}$ (mmol m⁻² s⁻¹) 1.5 -Col-0 pgm 1.2 -0.9 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

 $h_{g}^{2} \, \text{Geno} \, 0.04^{^{*}}, \, \text{Env} \, 0.06^{^{ns}} \, \text{Irr} \, 0.06^{^{**}}, \, \text{GenoxEnv} \, 0.02^{ns}, \, \text{GenoxIrr} \, 0.15^{^{****}}, \, \text{EnvxIrr} \, 0.05^{ns}, \, \text{GenoxEnvxIrr} \, 0.02^{ns}$ WW WS 1.0 - E_{night} (mmol m⁻² s⁻¹) Col-0 0.8 pgm 0.6 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

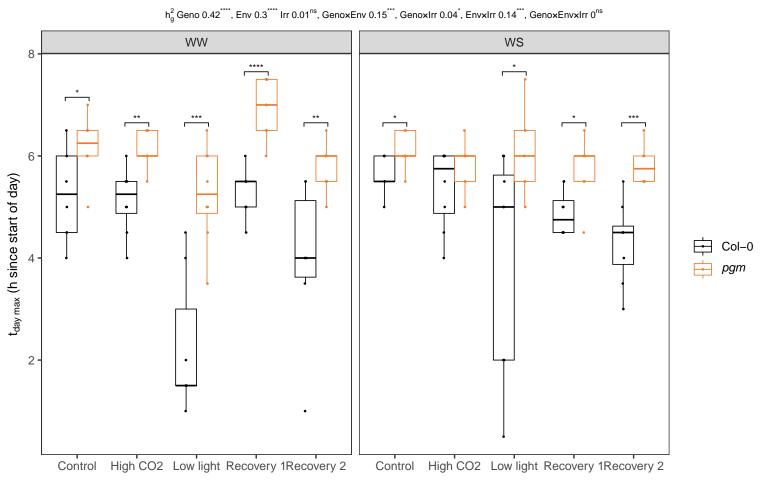
 $h_g^2\,\text{Geno}\,0.01^\text{ns},\,\text{Env}\,0.07^\text{ns}\,\text{Irr}\,0.04^\text{*},\,\text{GenoxEnv}\,0.03^\text{ns},\,\text{GenoxIrr}\,0.12^\text{****},\,\text{EnvxIrr}\,0.05^\text{ns},\,\text{GenoxEnvxIrr}\,0.01^\text{ns}$ WW WS 1.1 - $\rm E_{\rm end\ of\ night}\ (mmol\ m^{-2}\ s^{-1})$ 0.9 -Col-0 pgm 0.7 0.5 High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2 Control







 h_{σ}^{2} Geno 0.12^{****} , Env 0.35^{****} Irr 0.01^{ns} , GenoxEnv 0^{ns} , GenoxIrr 0.15^{****} , EnvxIrr 0.03^{ns} , GenoxEnvxIrr 0.01^{ns} WW WS 2.0 - $\mathsf{E}_{\mathsf{day\;max}}\;(\mathsf{mmol\;m}^{-2}\;\mathsf{s}^{-1})$ Col-0 l.6 pgm 1.2 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2



 h_{q}^{2} Geno 0.47 The first one of the converge of the co WW WS 1.0 - $\sigma_{day} \; (mmol \; m^{-2} \; s^{-1} \; d^{-1})$ 0.5 -Col-0 pgm 0.0 -0.5 Control High CO2 Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

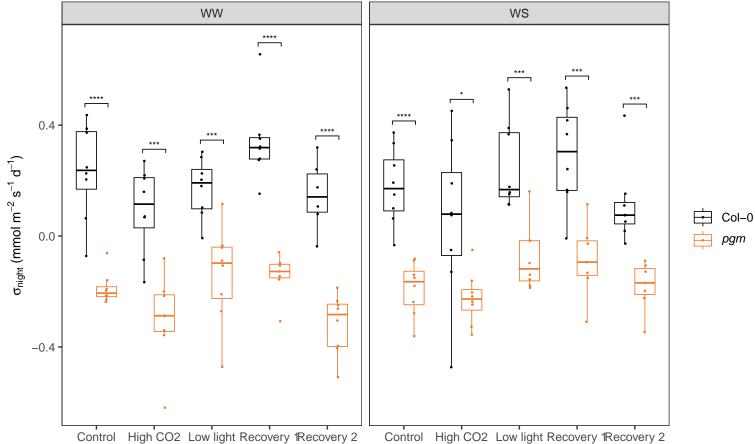
 h_0^2 Geno 0.34 ···· , Env 0.45 ···· Irr 0^{ns} , GenoxEnv 0.07^{ns} , GenoxIrr 0.01^{ns} , EnvxIrr 0.05^{ns} , GenoxEnvxIrr 0.02^{ns} WWWS 20 - $\Delta_{\rm day}~({\rm mol}~{\rm m}^{-2})$ Col-0 pgm \Rightarrow Control High CO2 Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2

 h_{q}^{2} Geno 0.17 ..., Env 0.06 s Irr 0.03 s, Geno×Env 0.1 , Geno×Irr 0.11 , Env×Irr 0.12 , Geno×Env×Irr 0.02 s WW WS 6 - $\Sigma_{\rm preclo}~({
m mol}~{
m m}^{-2})$ Col-0 pgm 2 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2

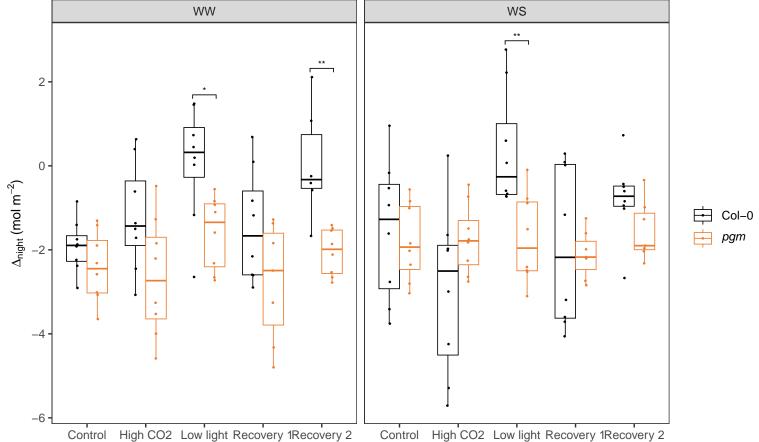
 $h_{g}^{2}\,\text{Geno }0.1^{""},\,\text{Env }0.06^{\text{ns}}\,\text{Irr }0.06^{"},\,\text{GenoxEnv }0.03^{\text{ns}},\,\text{GenoxIrr }0.18^{""},\,\text{EnvxIrr }0.04^{\text{ns}},\,\text{GenoxEnvxIrr }0.03^{\text{ns}}$ WW WS 1.0 - $E_{\text{night min}} \; (\text{mmol m}^{-2} \; \text{s}^{-1})$ 0.8 -Col-0 pgm 0.6 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

 h_{σ}^{2} Geno 0.71 ^{****}, Env 0.19 ^{****} Irr 0^{ns} , GenoxEnv 0.09 ^{**}, GenoxIrr 0^{ns} , EnvxIrr 0.01 ^{ns}, GenoxEnvxIrr 0.03 ^{ns} WW WS 12.5 -10.0 t_{night min} (h since start of night) **** 7.5 -Col-0 pgm 5.0 2.5 0.0 -High CO2 Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2 Control

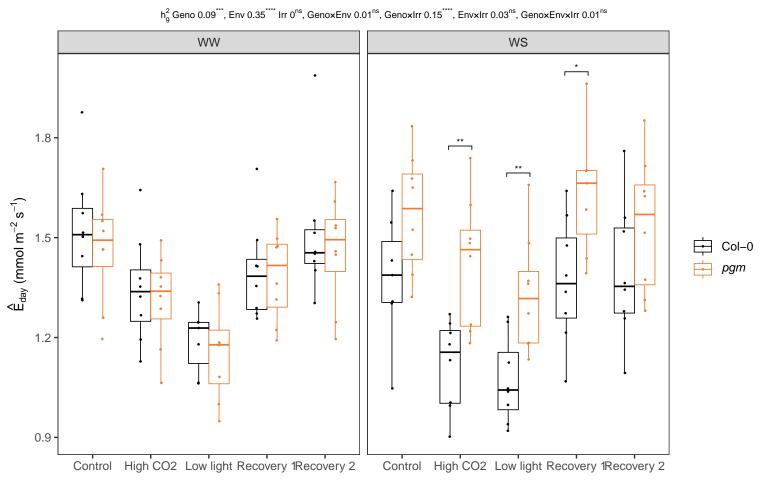
h_g² Geno 0.65⁻⁻⁻⁻, Env 0.21⁻⁻⁻⁻ Irr 0.01^{ns}, Geno×Env 0.02^{ns}, Geno×Irr 0.02^{ns}, Env×Irr 0.02^{ns}, Geno×Env×Irr 0.01^{ns}



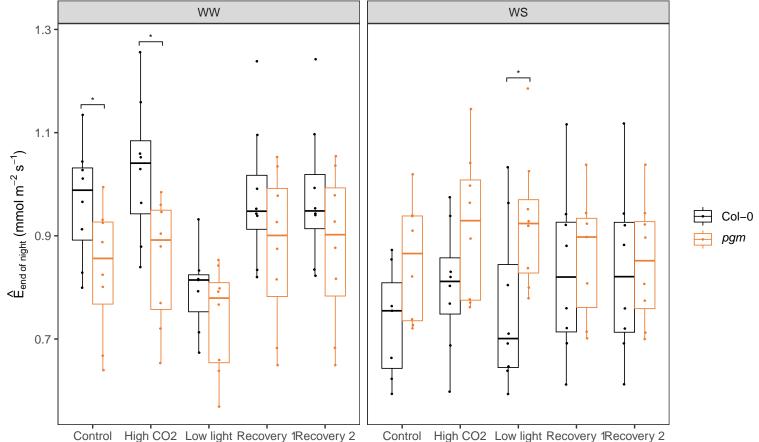
h_g Geno 0.14 , Env 0.2 Irr 0^{ns}, Geno×Env 0.08, Geno×Irr 0.04, Env×Irr 0.02^{ns}, Geno×Env×Irr 0.05^{ns}



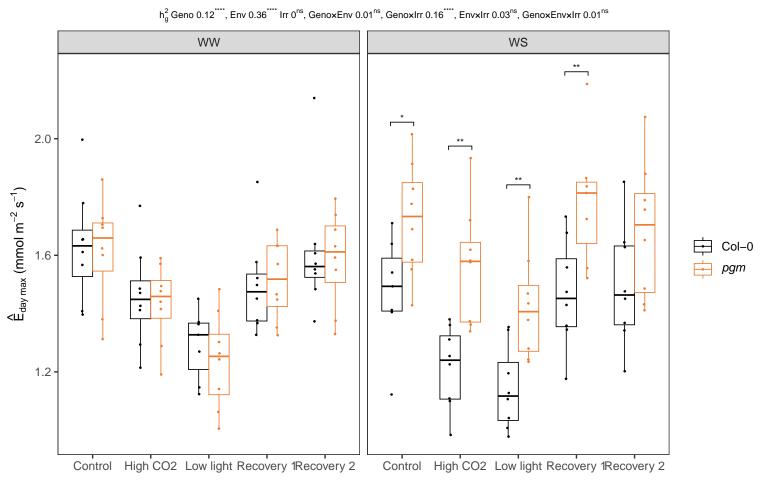
 h_{σ}^{2} Geno 0.53 ****, Env 0.14 *** Irr 0^{ns} , GenoxEnv 0.04 ***, GenoxIrr 0^{ns} , EnvxIrr 0.02 ***, GenoxEnvxIrr 0.01 *** WW WS 6 - $\Sigma_{\rm preop}~({
m mol}~{
m m}^{-2})$ Col-0 pgm 2 -0 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2



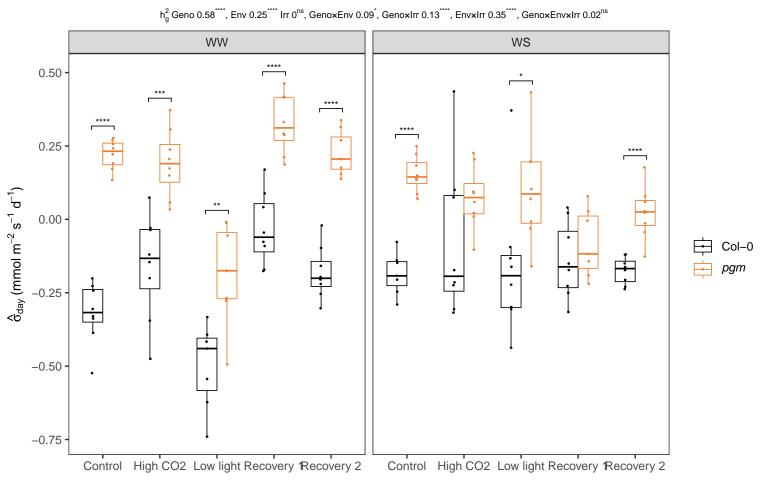
 h_{q}^{2} Geno 0.04*, Env 0.06^{ns} Irr 0.06**, GenoxEnv 0.02^{ns}, GenoxIrr 0.14****, EnvxIrr 0.06^{ns}, GenoxEnvxIrr 0.02^{ns} WW WS 1.0 - $\hat{\mathsf{E}}_{\mathsf{night}}$ (mmol m $^{-2}$ s $^{-1}$) Col-0 pgm 0.8 0.6 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2



 h_0^2 Geno 0.14 , Env 0.61 Irr 0.1 , GenoxEnv 0.07 , GenoxIrr 0.07 , EnvxIrr 0.12 , GenoxEnvxIrr 0.01 , GenoxEnvxIrr 0.01 , GenoxEnvxIrr 0.01 WW WS 1.2 - A_{diel} (mmol m⁻² s⁻¹) Col-0 0.9 pgm 0.6 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2



 h_{σ}^{2} Geno 0.49 ****, Env 0.46 **** Irr 0 ***, GenoxEnv 0.15 ***, GenoxIrr 0.04 *, EnvxIrr 0.1 **, GenoxEnvxIrr 0.03 ** WW WS 8 -6 t_{day max} (h since start of day) Col-0 pgm 2 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2



 $h_{q}^{2} \; \mathsf{Geno} \; 0.45^{""}, \; \mathsf{Env} \; 0.43^{""} \; \mathsf{Irr} \; 0.02^{\mathsf{ns}}, \; \mathsf{Geno} \times \mathsf{Env} \; 0.02^{\mathsf{ns}}, \; \mathsf{Geno} \times \mathsf{Irr} \; 0.02^{\mathsf{ns}}, \; \mathsf{Geno} \times \mathsf{Env} \times \mathsf{Irr} \; 0.02^{\mathsf{ns}}, \; \mathsf{Env} \times$ WW ${\sf WS}$ 10 -+ $\mathring{\Delta}_{\text{day}} \; (\text{mol m}^{-2})$ Col-0 pgm 0 -

Control

High CO2 Low light Recovery 1Recovery 2

Control

High CO2 Low light Recovery 1Recovery 2

 $h_{g}^{2} \: \mathsf{Geno} \: 0.09^{\texttt{...}}, \: \mathsf{Env} \: 0.01^{\mathsf{ns}} \: \mathsf{Irr} \: 0^{\mathsf{ns}}, \: \mathsf{GenoxEnv} \: 0.08^{\overset{\texttt{.}}{\bullet}}, \: \mathsf{GenoxIrr} \: 0.2^{\overset{\texttt{....}}{\dots}}, \: \mathsf{EnvxIrr} \: 0.21^{\overset{\texttt{....}}{\dots}}, \: \mathsf{GenoxEnvxIrr} \: 0.01^{\mathsf{ns}}$ WW WS 5 -4 - $\hat{\Sigma}_{\rm preclo}$ (mol m $^{-2}$) Col-0 pgm 2 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2

 h_0^2 Geno 0.05^{**} , Env 0.06^{ns} Irr 0.06^{**} , GenoxEnv 0.04^{ns} , GenoxIrr 0.16^{****} , EnvxIrr 0.05^{ns} , GenoxEnvxIrr 0.03^{ns} WW WS 1.0 - $\hat{E}_{night \, min} \, (mmol \, m^{-2} \, s^{-1})$ Col-0 0.8 pgm 0.6 Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2

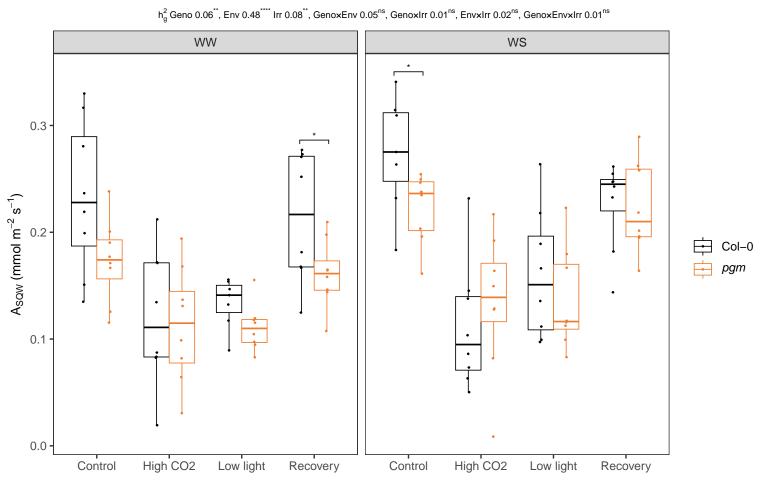
 h_0^2 Geno 0.78^{****} , Env 0.1^{**} Irr 0.01^{ns} , Geno×Env 0.06^{ns} , Geno×Irr 0.02^{ns} , Env×Irr 0.05^{ns} , Geno×Env×Irr 0.01^{ns} WW WS 10.0 t_{night min} (h since start of night) 7.5 -Col-0 pgm 5.0 -2.5 Control High CO2 Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

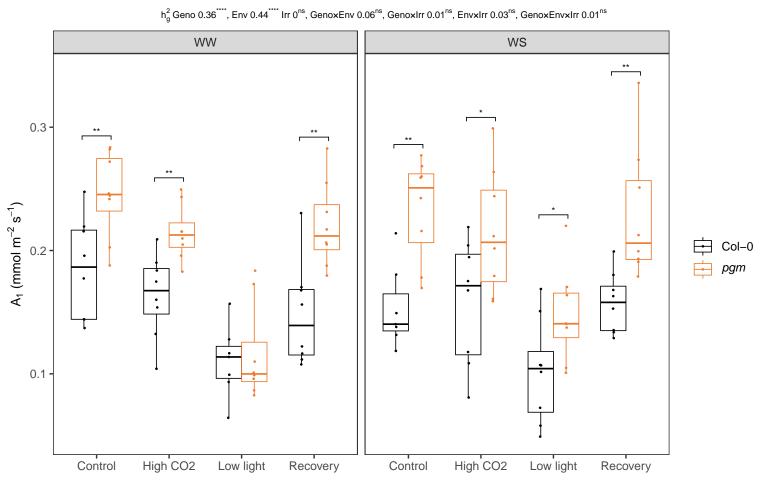
 h_{q}^{2} Geno 0.72^{****} , Env 0.04^{ns} Irr 0^{ns} , GenoxEnv 0.08^{*} , GenoxIrr 0.09^{***} , EnvxIrr 0.08^{*} , GenoxEnvxIrr 0.04^{ns} WW WS 0.6 -0.4 - δ_{night} (mmol m⁻² s⁻¹ d⁻¹) 0.2 -Col-0 pgm 0.0 --0.2-0.4 **-**Control High CO₂ Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2

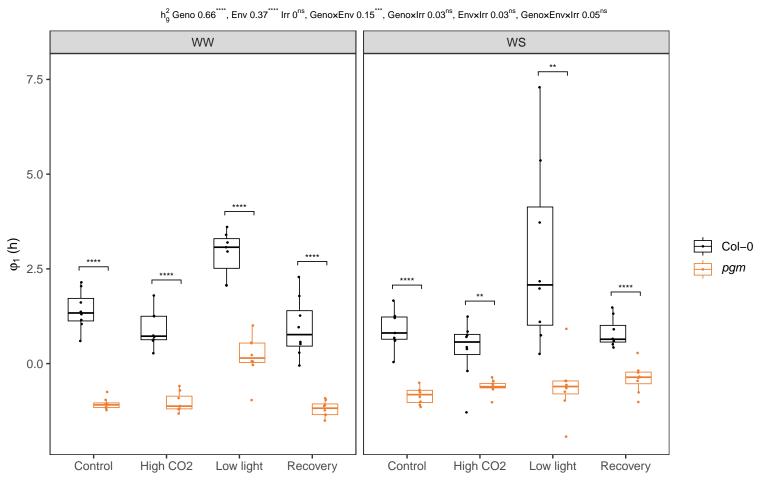
 h_{q}^{2} Geno 0.27^{****} , Env 0.28^{****} Irr 0^{ns} , Geno×Env 0.02^{ns} , Geno×Irr 0.03^{*} , Env×Irr 0.02^{ns} , Geno×Env×Irr 0.01^{ns} WW WS 1 -0 $\Delta_{\text{night}} \, (\text{mol m}^{-2})$ Col-0 -2 pgm -3 -4 High CO2 Low light Recovery 1Recovery 2 Control High CO2 Low light Recovery 1Recovery 2 Control

 $h_q^2 \, \text{Geno } 0.55^{****}, \, \text{Env } 0.03^{\text{ns}} \, \text{Irr } 0^{\text{ns}}, \, \text{GenoxEnv } 0.03^{\text{ns}}, \, \text{GenoxIrr } 0.01^{\text{ns}}, \, \text{EnvxIrr } 0.06^{\text{ns}}, \, \text{GenoxEnvxIrr } 0.03^{\text{ns}}, \, \text$ WW WS 6 - $\hat{\Sigma}_{\text{preop}}$ (mol m $^{-2}$) Col-0 pgm **** 2 · 0 -Control High CO₂ Low light Recovery 1Recovery 2 Control High CO₂ Low light Recovery 1Recovery 2

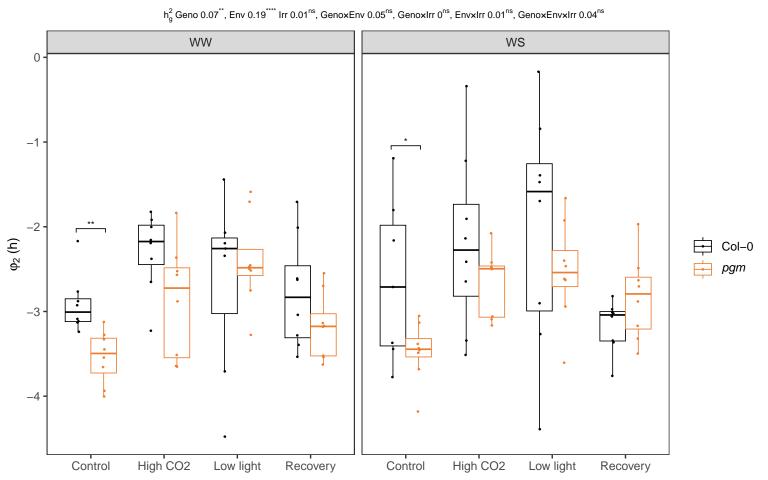
 h_{σ}^{2} Geno 0.05°, Env 0.23° Irr 0^{ns}, GenoxEnv 0.01^{ns}, GenoxIrr 0.14° EnvxIrr 0.08°, GenoxEnvxIrr 0.01^{ns} WW WS 1.6 1.4 -E_{mean} (mmol m⁻² s⁻¹) Col-0 pgm 0.8 -0.6 Control High CO2 Low light Recovery Control High CO2 Low light Recovery







 h_{α}^{2} Geno 0.17^{****} , Env 0.15^{***} Irr 0.03^{ns} , GenoxEnv 0.04^{ns} , GenoxIrr 0.07^{**} , EnvxIrr 0^{ns} , GenoxEnvxIrr 0.01^{ns} WW WS 0.12 0.09 - $A_2 \text{ (mmol m}^{-2} \text{ s}^{-1}\text{)}$ Col-0 0.06 pgm 0.03 -0.00 Control High CO2 Low light Recovery Control High CO2 Low light Recovery



 h_{σ}^{2} Geno 0.37^{****} , Env 0.42^{****} Irr 0^{ns} , GenoxEnv 0.06^{ns} , GenoxIrr 0.03^{ns} , EnvxIrr 0.02^{ns} , GenoxEnvxIrr 0^{ns} WW WS 0.4 -A₁ + A₂ (mmol m⁻² s⁻¹) = 5.0Col-0 pgm 0.1 -Control High CO2 Low light Recovery Control High CO2 Low light Recovery

