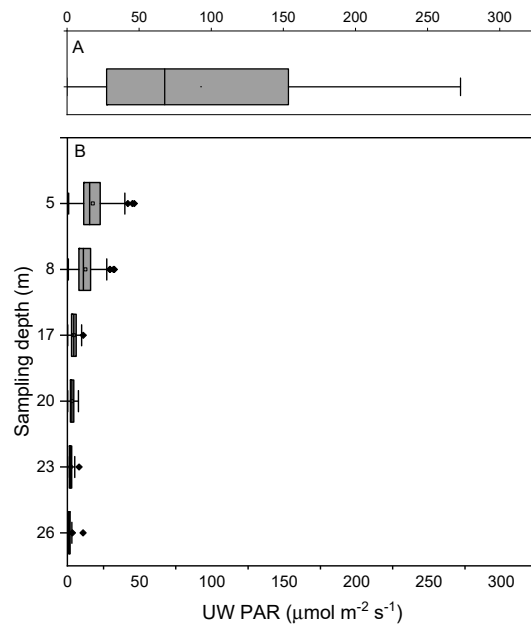
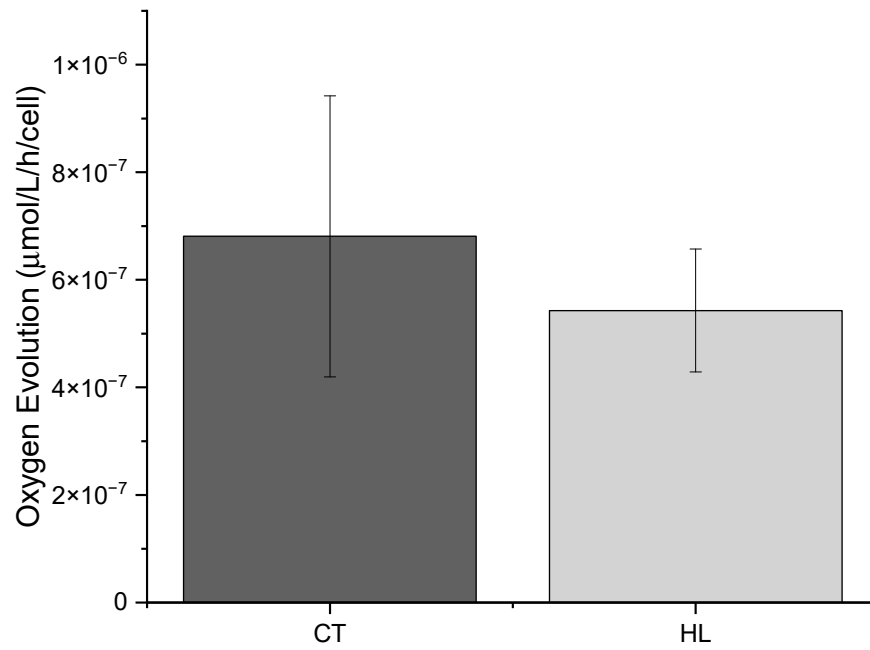


Supplemental Figures:



Supplemental Figure S1: Variation in underwater light availability (photosynthetically available radiation, PAR) during the growing season (Oct – Feb) of Lake Bonney (east lobe). A. moat (sampling years 2018 – 2020); B. ice-covered water column (sampling years, 1993 – 2020).



Supplemental Figure S2: Oxygen evolution rates of control and high light grown UWO241 normalized to cell counts measured using an automated cell counter (Countess II, ThermoFisher). Data are means of three replicate \pm SD.