



**Figure S2.** The NPQt of non-drought and droughted sugar beet plants (a) and droughted and non-droughted sugar beet (b) exposed to changing PAR of 250  $\mu\text{mol m}^{-2} \text{s}^{-1}$  for 15min, 2500  $\mu\text{mol m}^{-2} \text{s}^{-1}$  for 30min and 250  $\mu\text{mol m}^{-2} \text{s}^{-1}$  for 30min, with measurements logged every minute measured using an infrared gas analyser (Li6800, LI-COR, Lincoln, Nebraska, USA). Error bars show SE±, (a) n= 8 Sugar beet and 8 spinach, (b) n= 4 non-droughted and 4 droughted sugar beet.