

SI for wind farm paper

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Supplementary figures

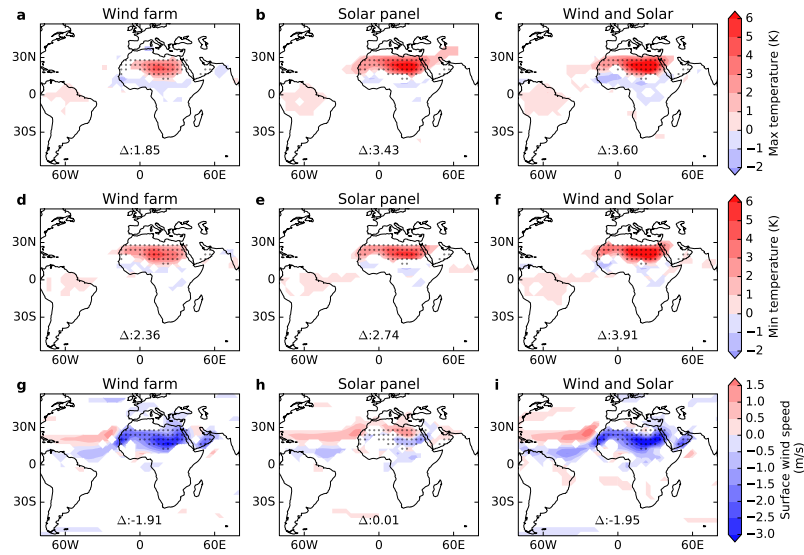


Figure 1: Impacts of wind farms and solar panels in the Sahara desert on (a-c) on maximum near-surface air temperature, (d-f) minimum near-surface air temperature, and (g-i) surface wind speed. Column 1 to 3 show the impacts of wind farms, solar panels, and these two together, respectively. Only areas with changes significant at 95% by t-test are displayed on the map. Black dots on the map denote the location of wind farms/solar panels. The number at the bottom of map shows the impact averaged over wind/solar farms locations.

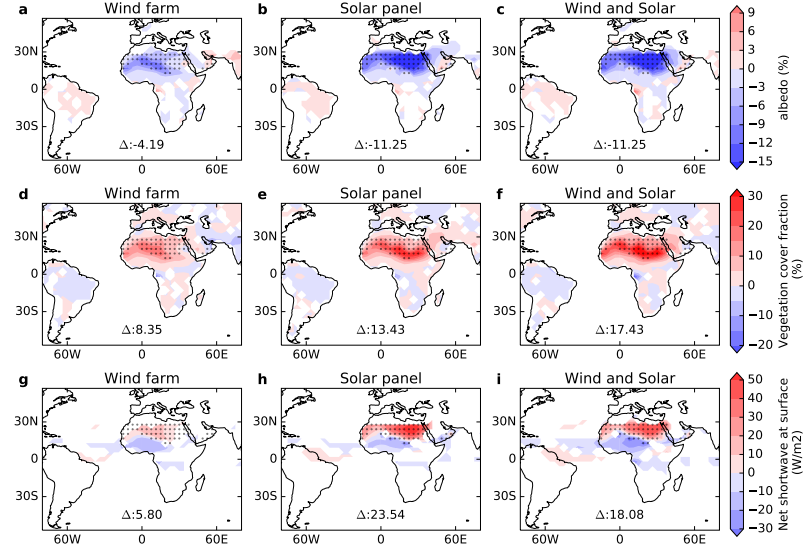


Figure 2: Impacts of wind farms and solar panels in the Sahara desert on (a-c) albedo, (d-f) vegetation cover fraction, and (g-i) net shortwave radiation at surface

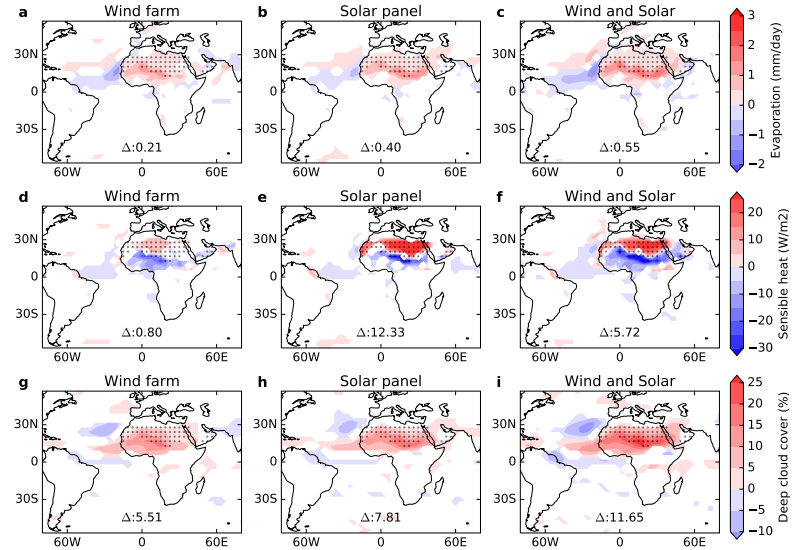


Figure 3: Impacts of wind farms and solar panels in the Sahara desert on (a-c) evaporation, (d-f) sensible heat, and (g-i) deep cloud cover.

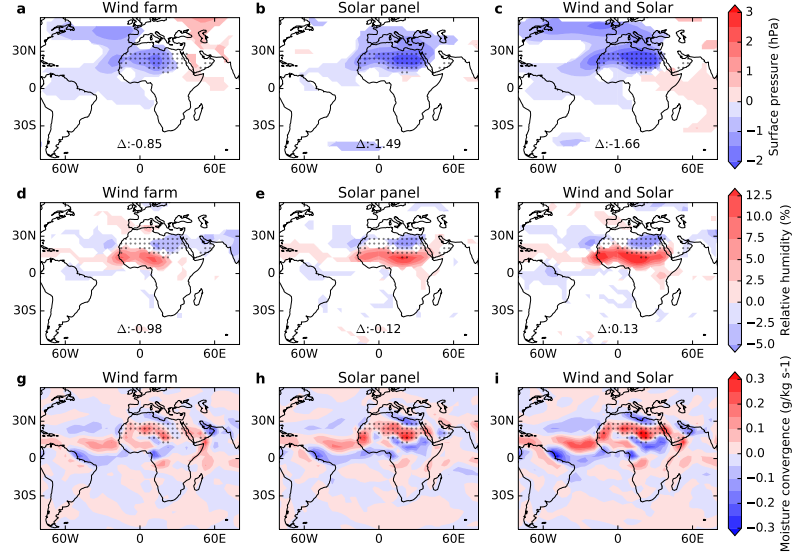


Figure 4: Impacts of wind farms and solar panels in the Sahara desert on (a-c) surface pressure, (d-f) relative humidity, and (g-i) moisture convergence. Note all changes for moisture convergence changes are shown on the map, including both significant and non-significant changes.

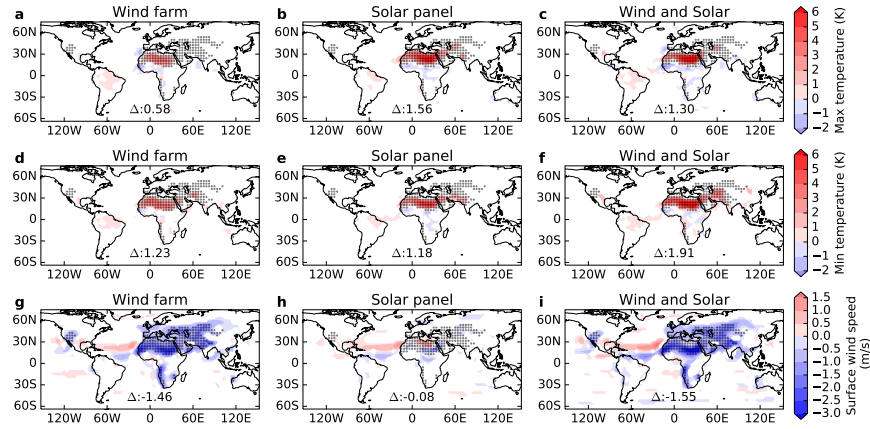


Figure 5: Impacts of wind farms and solar panels in the world's deserts on (a-c) on maximum near-surface air temperature, (d-f) minimum near-surface air temperature, and (g-i) surface wind speed. Column 1 to 3 show the impacts of wind farms, solar panels, and these two together, respectively. Only areas with changes significant at 95% by t-test are displayed on the map. Black dots on the map denote the location of wind farms/solar panels. The number at the bottom of map shows the impact averaged over wind farm/solar panels locations.

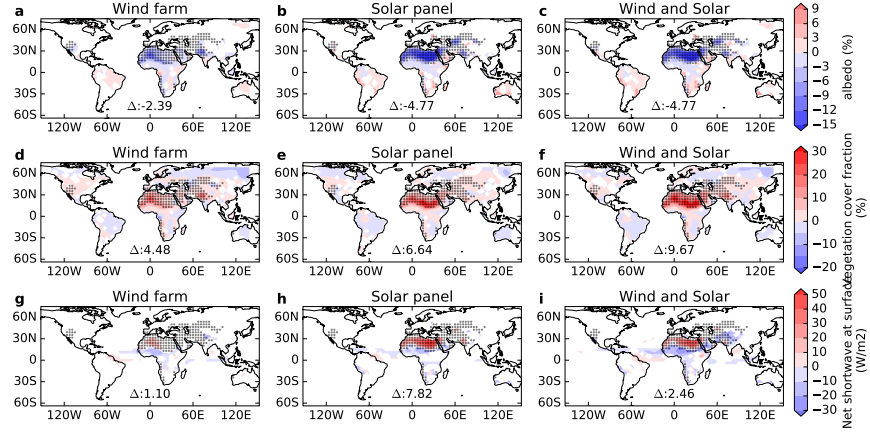


Figure 6:
Impacts of wind farms and solar panels in the world's deserts on (a-c) albedo, (d-f) vegetation cover fraction, and (g-i) net shortwave radiation at surface.

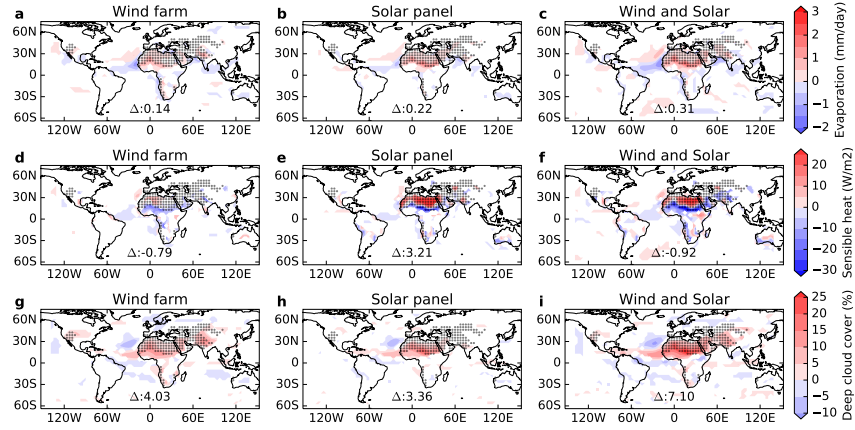


Figure 7:
Impacts of wind farms and solar panels in the world's deserts on (a-c) evaporation, (d-f) sensible heat, and (g-i) deep cloud cover.

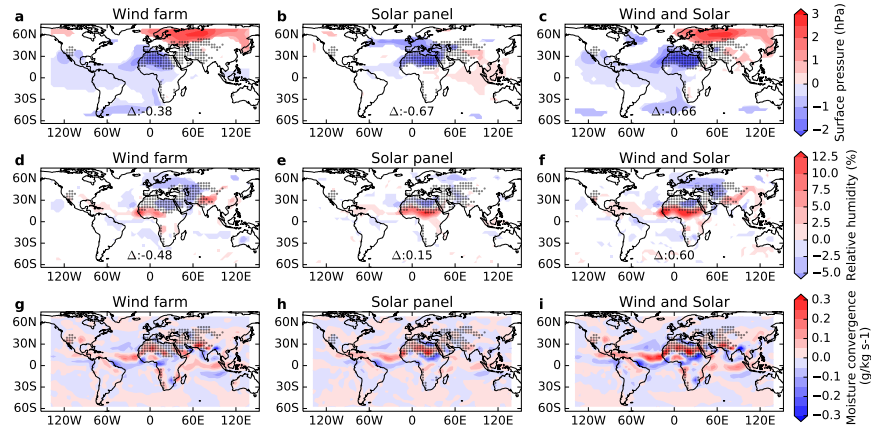


Figure 8:
Impacts of wind farms and solar panels in the world's deserts on (a-c) surface pressure, (d-f) relative humidity, and (g-i) moisture convergence.