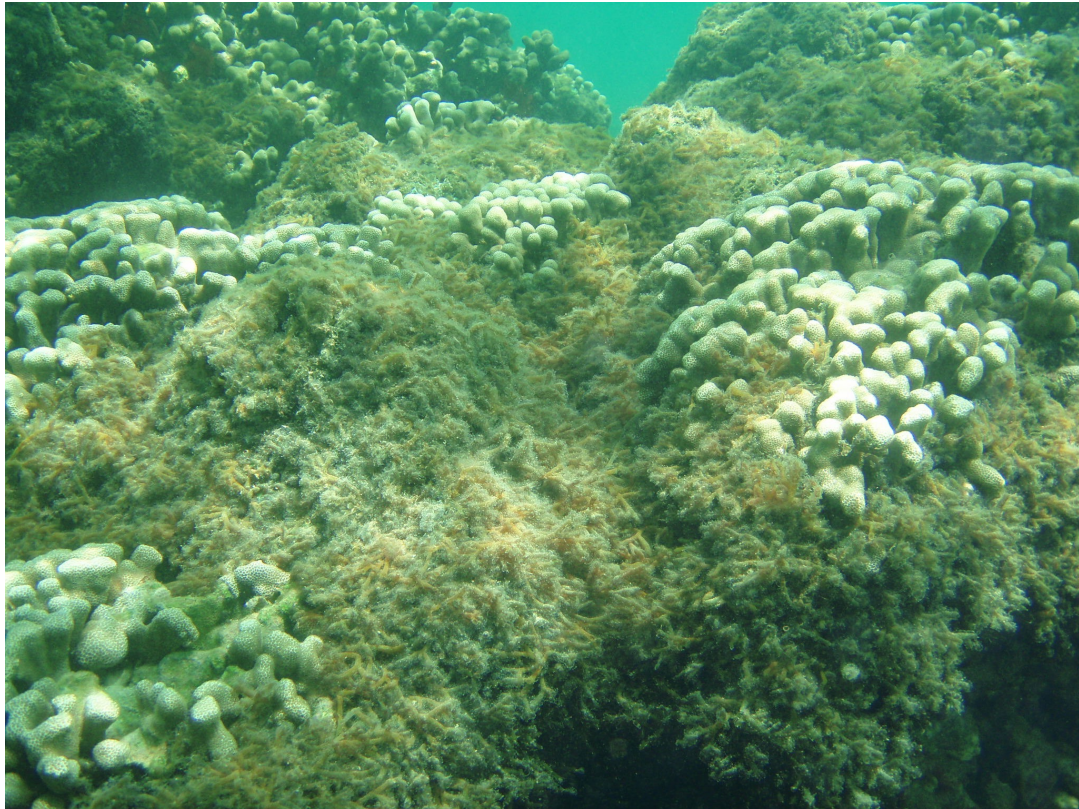
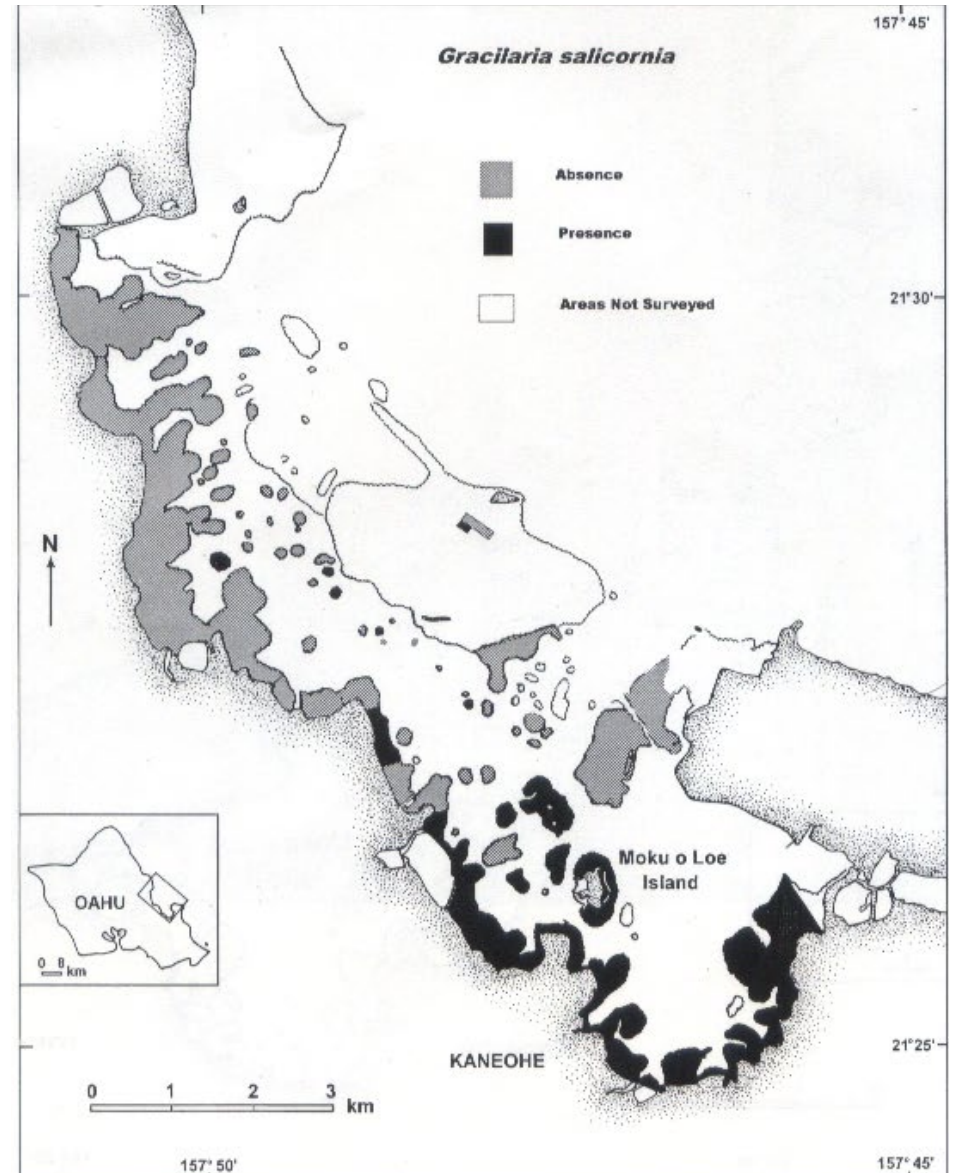


*Observations of a rapid decline in the invasive macroalgae *Gracilaria salicornia* associated with *Chelonia mydas* grazing in the Moku o Lo'e marine reserve*

Ku'uilei Rodgers, Keisha Bahr, Danny Coffey, George Balaz



Rate of Spread
Gracilaria salicornia 280 m/yr
Caulerpa taxifolia 53000 m/yr

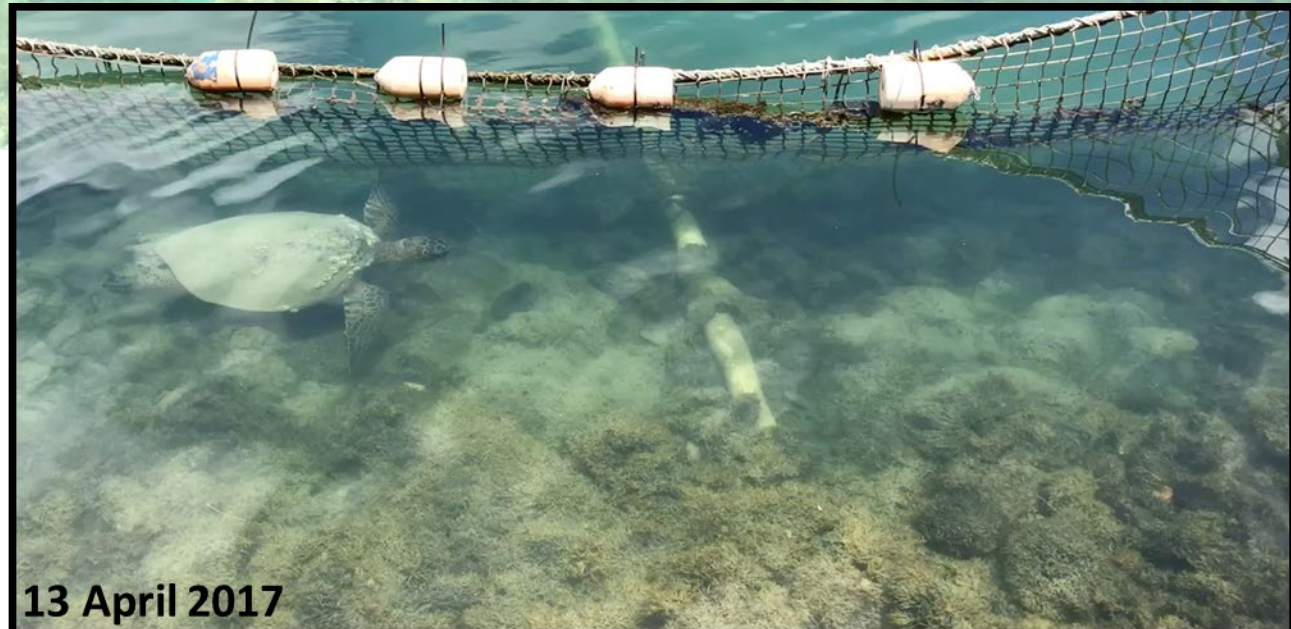
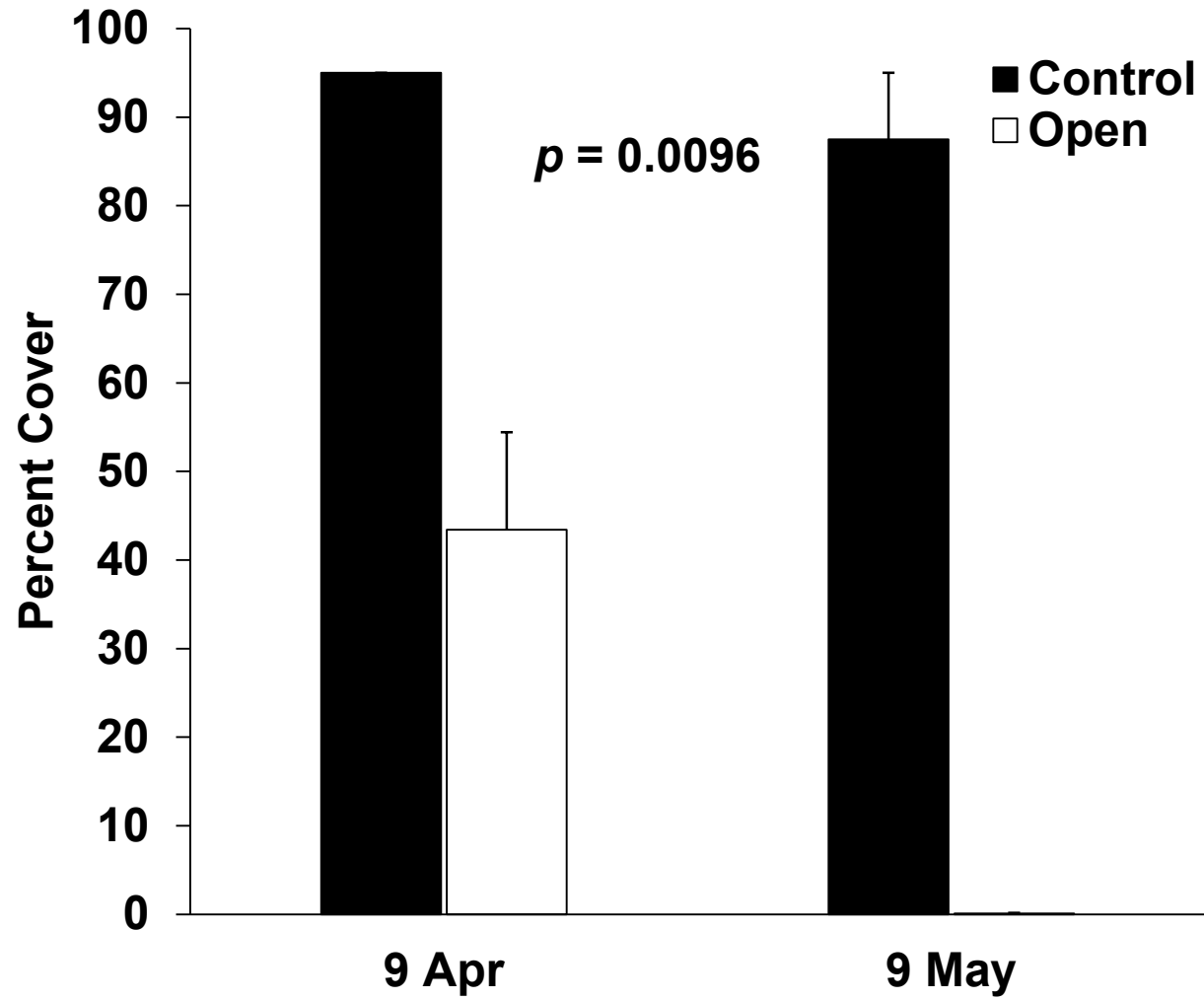


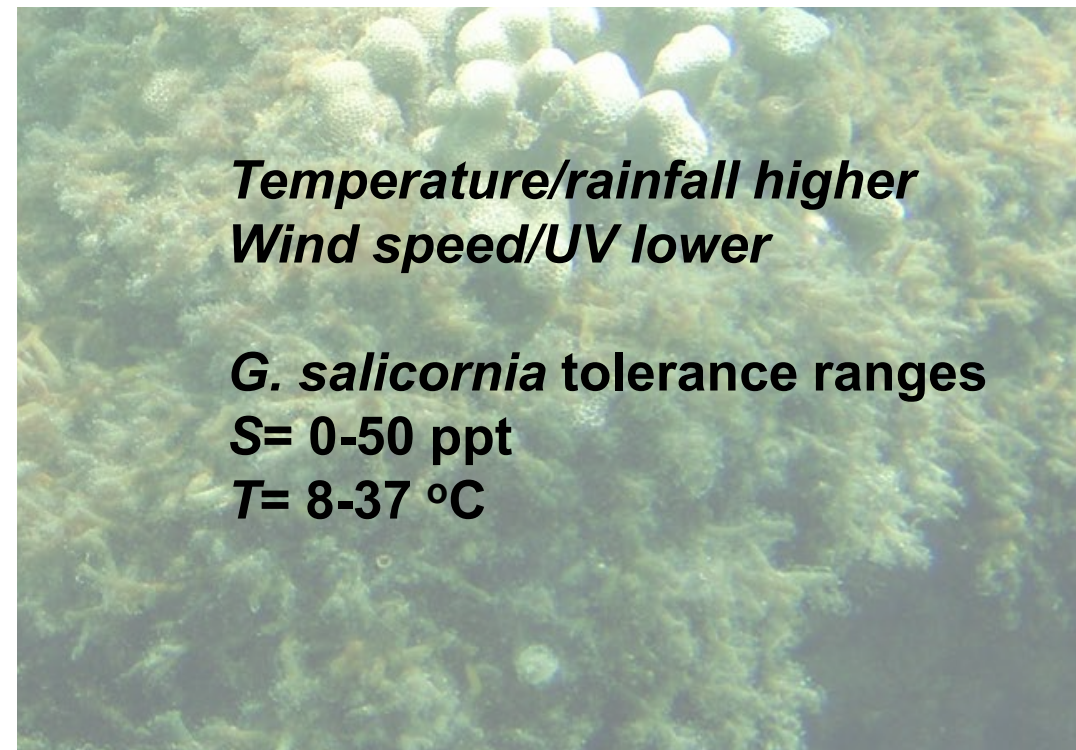
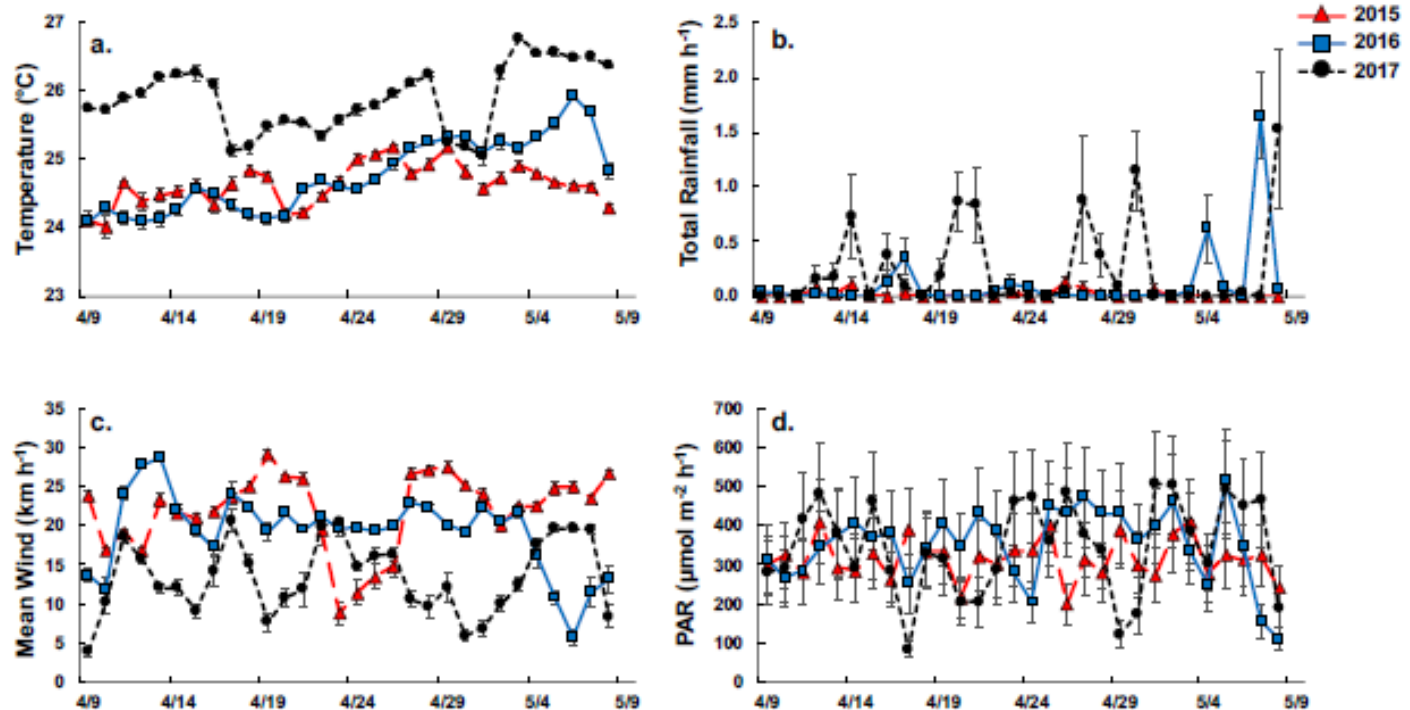
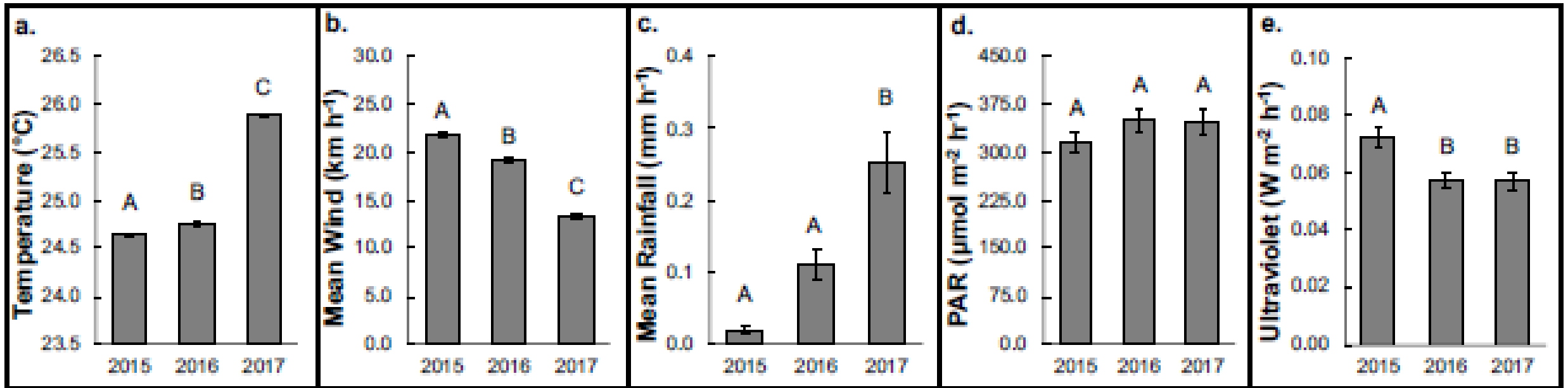


9 April 2017


9 May 2017









An underwater photograph showing a dense field of green, rounded coral structures. In the foreground, several silver fish with dark stripes are feeding on a dark, sandy or rocky substrate. The water is clear and blue-green.

Other Herbivores:

No association between *G. salicornia* and herbivorous fishes

Small home ranges

Areas inaccessible to *C. mydas* high abundance

Restricted habitat for herbivores

Different feeding strategies

© Mike Kristensen



Supporting evidence of link between decline in *G. salicornia* and increases in *C. mydas*:

Prior fish grazing

Direct grazing observations

Foraging in new habitats

Simultaneous spatial and temporal links

Reference sites not affected

No links with meteorological data