



**Figure S1.** (A) The conductivity of enclosures throughout the experiments. Control enclosures are represented by the thin solid line. +Nutrient enclosures are represented by the dotted-dashed line. +Salt enclosures are represented by the solid thick line. +Nutrients+salt enclosures are represented by the dashed line. Vertical error bars are standard errors of the mean. Vertical dashed lines represent the 3 times that dispersers were added (B)The conductivity of ponds that are in the undamaged area (Undisturbed; n=5) and the ponds in the goose-damaged regions (Goose-disturbed; n=5)