**Supplementary S-16**

A diagram of a system

AI-generated content may be incorrect.

Figure 1: Directed causal diagram. This depicts the causal relationship between surge (S) and outcome of aquaculture land change (Y1), through mechanisms like salinity (M1) or state recovery and policy responses (M2), in the presence of other confounding observed and unobserved (OU) variables, such as place-based variations like distance or elevation from the sea or soil type. There could be other external factors (P1), such as international market demand or price inflation shocks, that may also affect the uptake of aquaculture. We are further interested in the second part of this causal diagram, depicting the potential causal connection between this aquaculture shift in time 1 (Y1), on future salinity (Y2).