



Supplementary Figure 4. (A) Spawning potential ratio (SPR) versus fishing mortality ( $F$ ) and (B) the ratio of spawning biomass corresponding to  $F_{35}$  (the proxy for  $MMB_{MSY}$ ) relative to  $MMB$  at  $F=0$ ,  $MMB_0$  (i.e.,  $MMB_{MSY}/MMB_0$ ) versus steepness for golden king crab (*Lithodes aequispinus*) in the eastern Aleutian Islands. The x-axis values where the dashed lines cross the curves are  $F_{35}$  (in panel A) and the optimum steepness (in panel B). Calculation of  $F_{35}$  is independent of the stock-recruitment (SR) relationship whereas  $MMB_{MSY}/MMB_0$  depends on the SR relationship.