



Supplementary Figure 7. The probability (A–E) of mature male abundance (MMA) being less than average MMA ( $MMA_{ave}$ ) and (F–J) of mature male biomass (MMB) being less than 35% of the unfished level of MMB ( $MMB_{35}$ ) for golden king crab (*Lithodes aequispinus*) in the Aleutian Islands during the period from the 1985–1986 fishing season through the 2018–2019 fishing season, by model scenario, under harvest control rules (HCRs) HR0, HR10, HR15, HR15U, and HR30. Estimates are based on the last 10 years of a 30-year projection period for 53 scenarios of an operating model used to evaluate HCRs. The stock is projected from an initial level of abundance:  $1.55MMB_{35}$ . In the model used in this analysis, a linear relationship between CPUE and square root of selected abundance is assumed. For details about the HCRs, see Table 1.