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National Marine Fisheries Service
Alaska Fisheries Science Center

2023 AFSC Seminar Series

Jessica Glass, UAF Fairbanks, Department of Fisheries
Tuesday, April 11th @ 10 am Pacific

Long Live the Kingfish: Integrating Genomic Patterns and Ecological Processes to Understand Evolution in the Oceans

The field of genomics has revolutionized evolutionary biology and our ability to detect linkages between genes, behavior and the environment. Using genome-wide sequencing techniques, we are able to resolve historically contentious relationships across the Tree of Life. Integrating genomic tools and environmental datasets, my research program addresses themes that span the realm of resource management and conservation in the oceans including biodiversity, competition, environmental adaptation and population structure. I demonstrate how the combination of genomic, environmental and



behavioral datasets provides a powerful approach to investigate biological responses of marine species to anthropogenic and natural environmental stressors.



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