

Dynamic prey seascapes for four fishes foraging in the Skeena River estuary



Michael Arbeider¹, Charmaine Carr-Harris², Ciara Sharpe¹, Jonathan W Moore¹

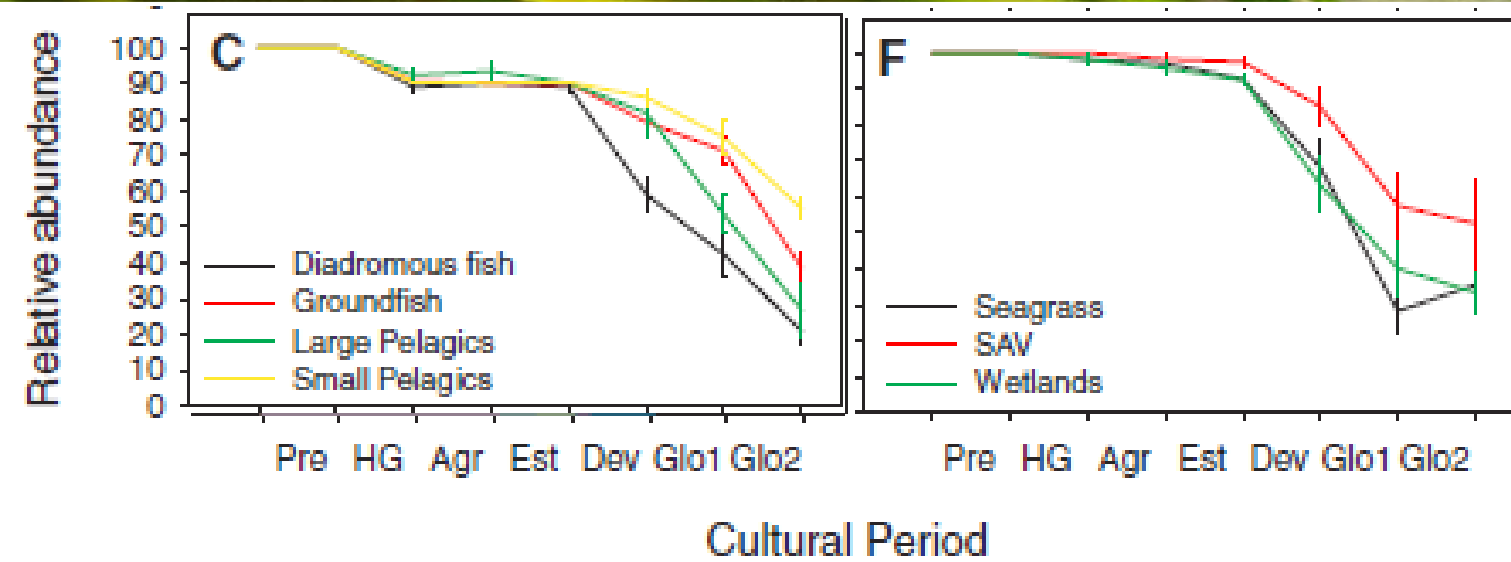
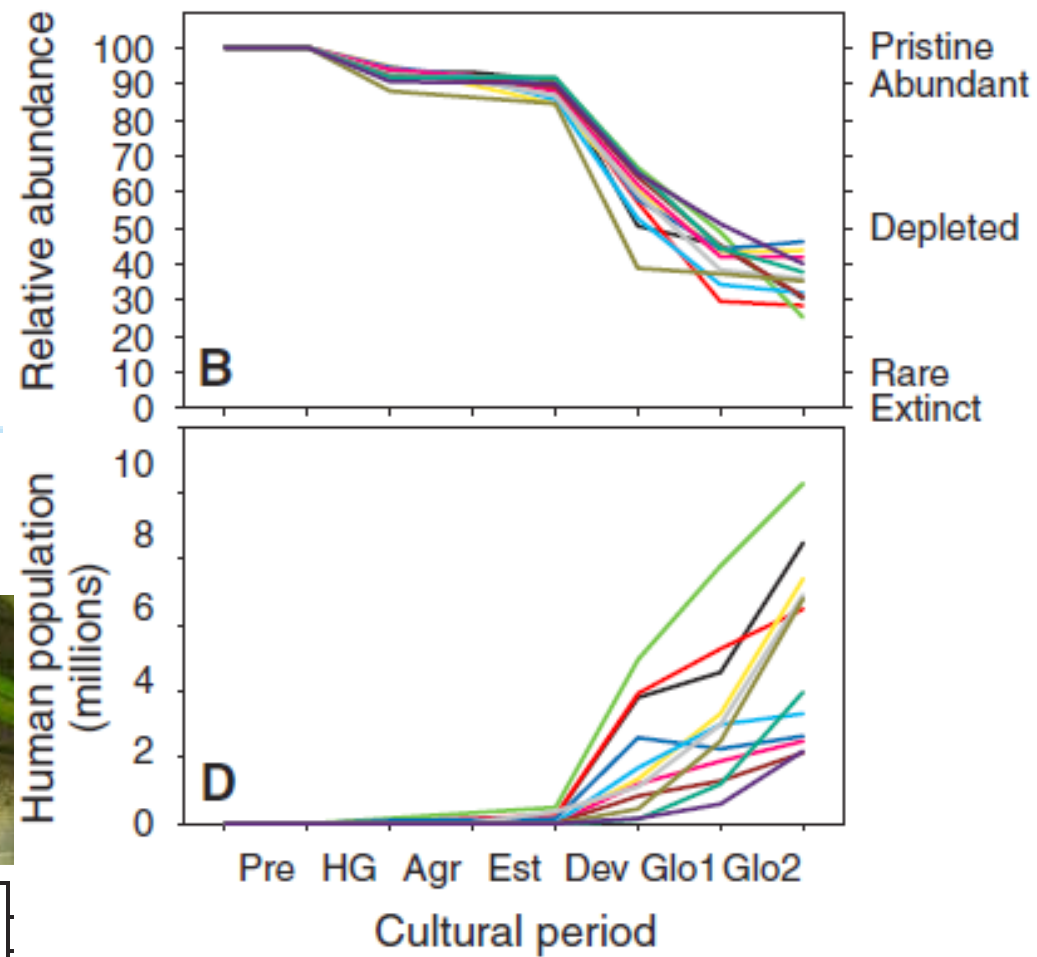
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² Skeena Fisheries Commission, 3135 Barnes Crescent, Kispiox, British Columbia, Canada



Depletion, Degradation, and Recovery Potential of Estuaries and Coastal Seas

Heike K. Lotze,^{1*} Hunter S. Lenihan,² Bruce J. Bourque,³ Roger H. Bradbury,⁴ Richard G. Cooke,⁵ Matthew C. Kay,² Susan M. Kidwell,⁶ Michael X. Kirby,⁷ Charles H. Peterson,⁸ Jeremy B. C. Jackson^{5,9}





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My Daily Menu!



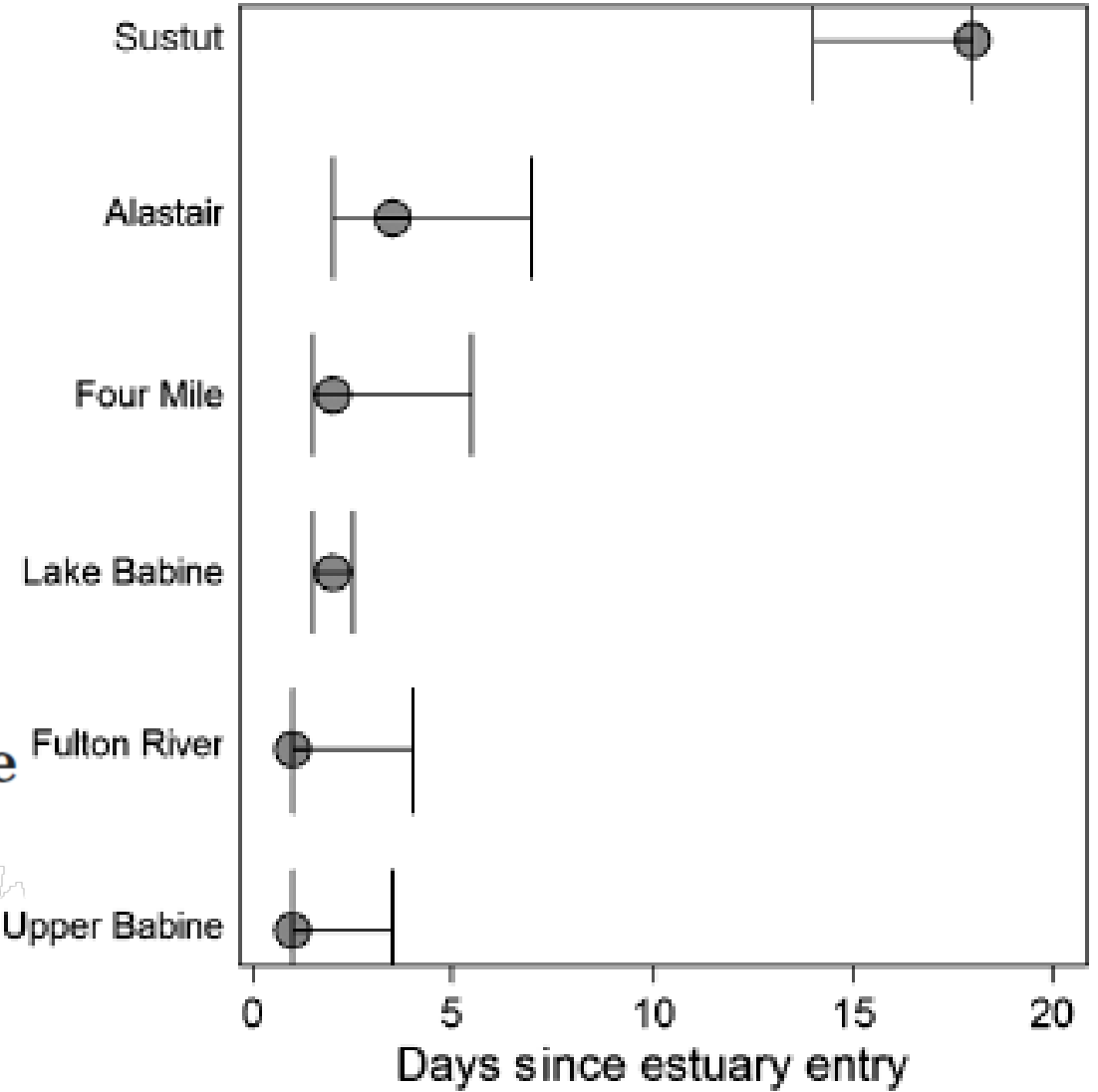
Photo: Tavish Campbell



Map Inset - of Study Area



Population



Assessing estuaries as stopover habitats for juvenile Pacific salmon

Jonathan W. Moore^{1,*}, Jennifer Gordon², Charmaine Carr-Harris³, Allen S. Gottesfeld³, Samantha M. Wilson¹, James Harvey Russell²



Map Design by John Latimer



Surf Smelt



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Photo: Tavish Campbell

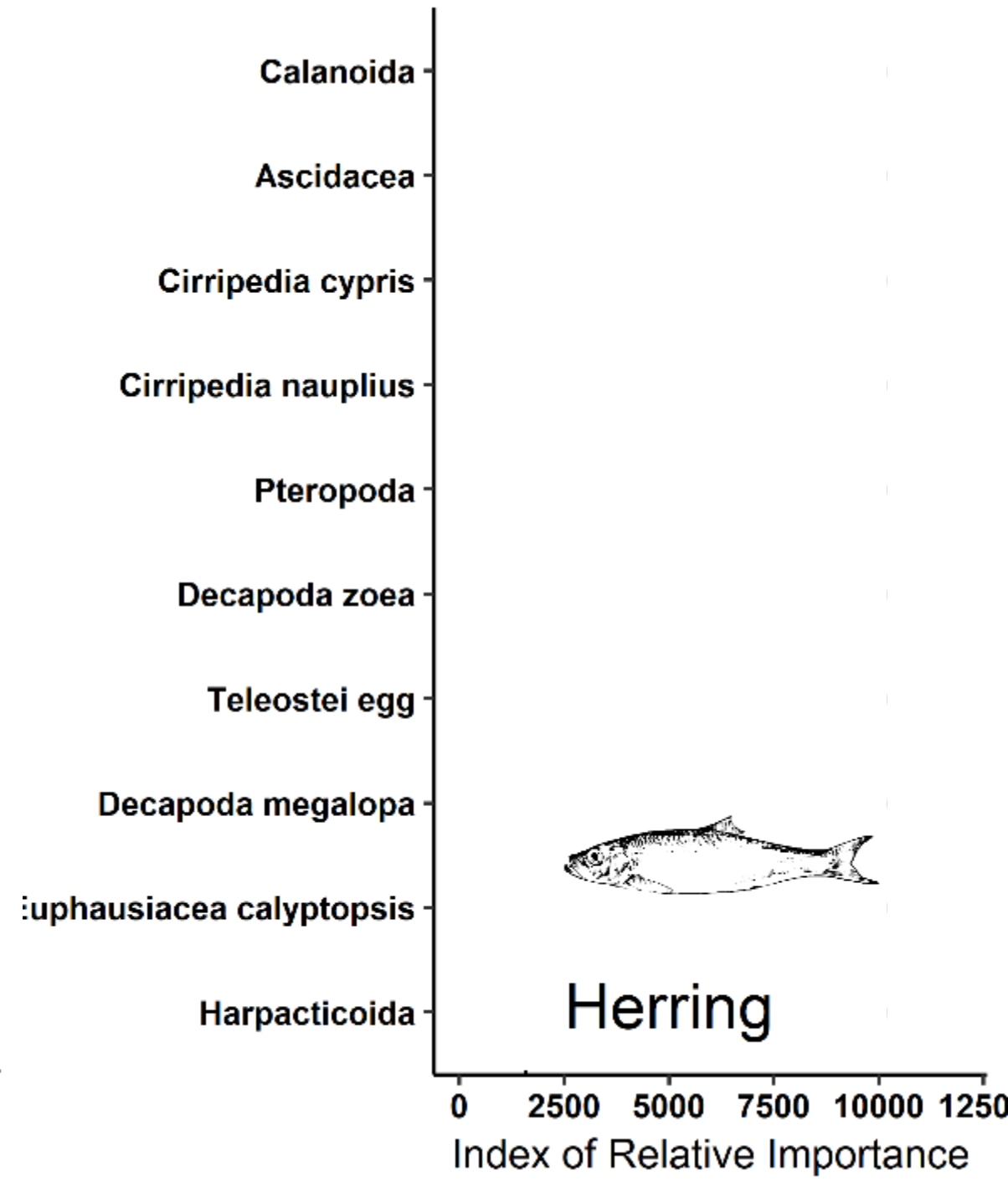
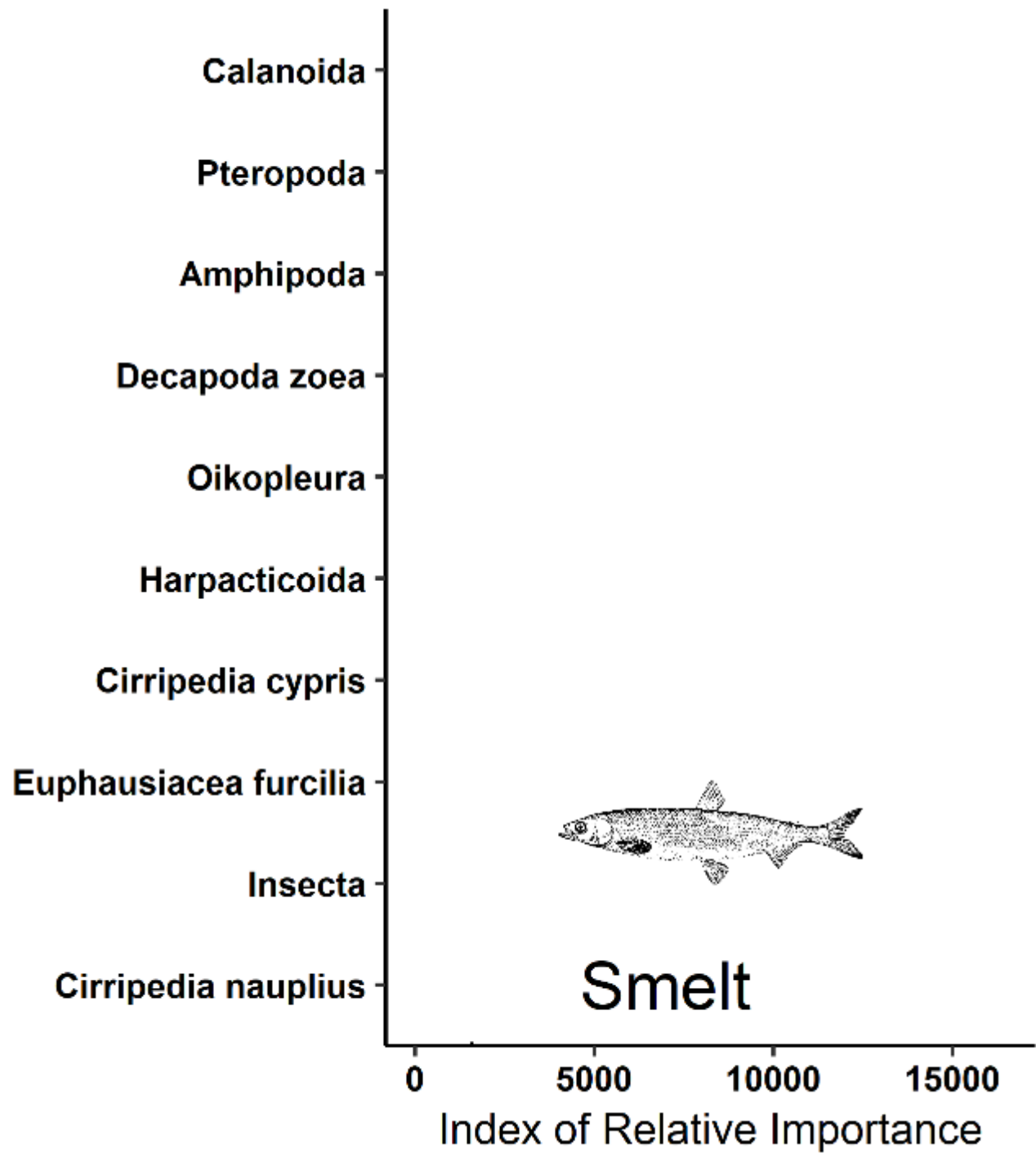


Pacific Herring

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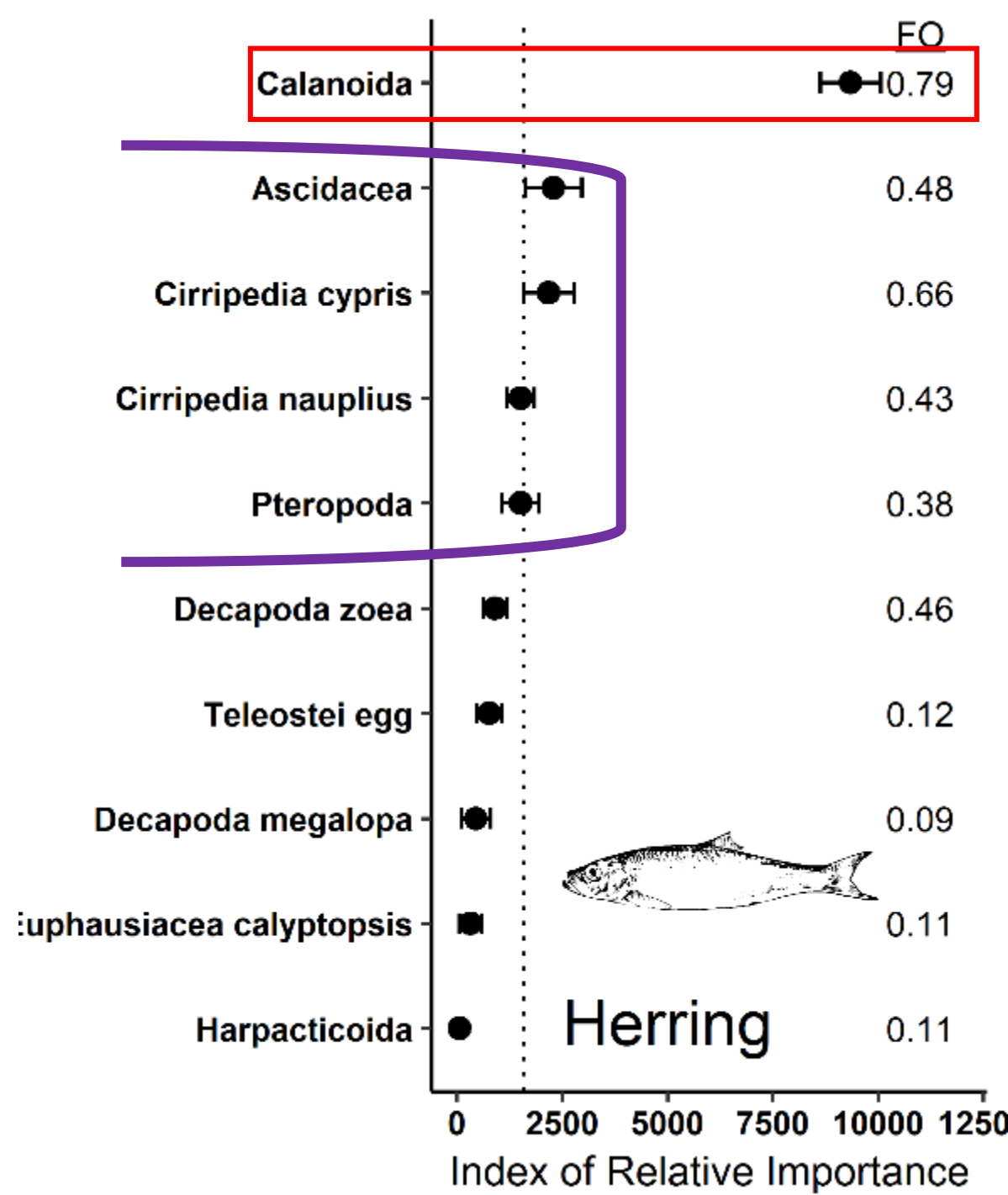
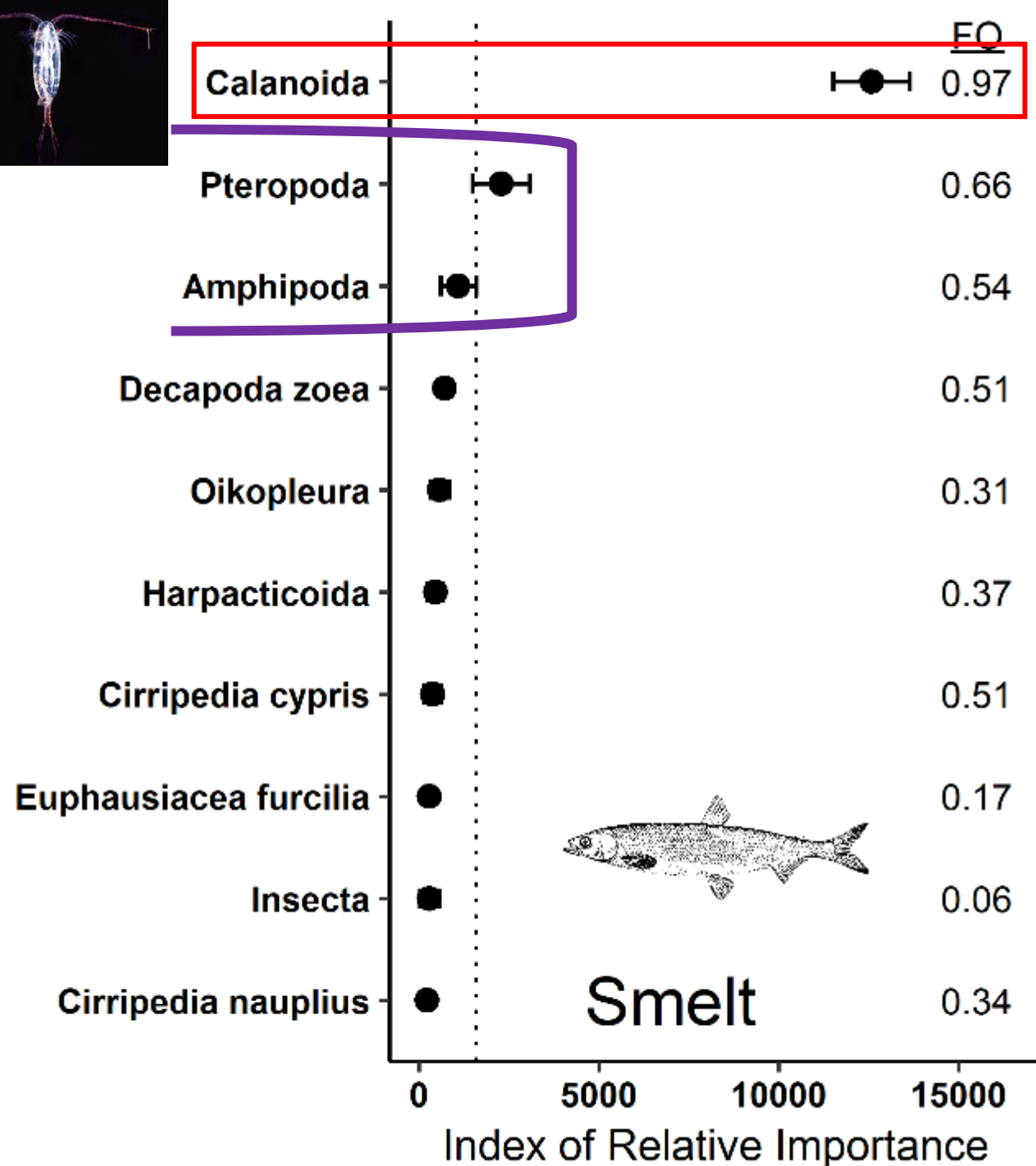


Prey species



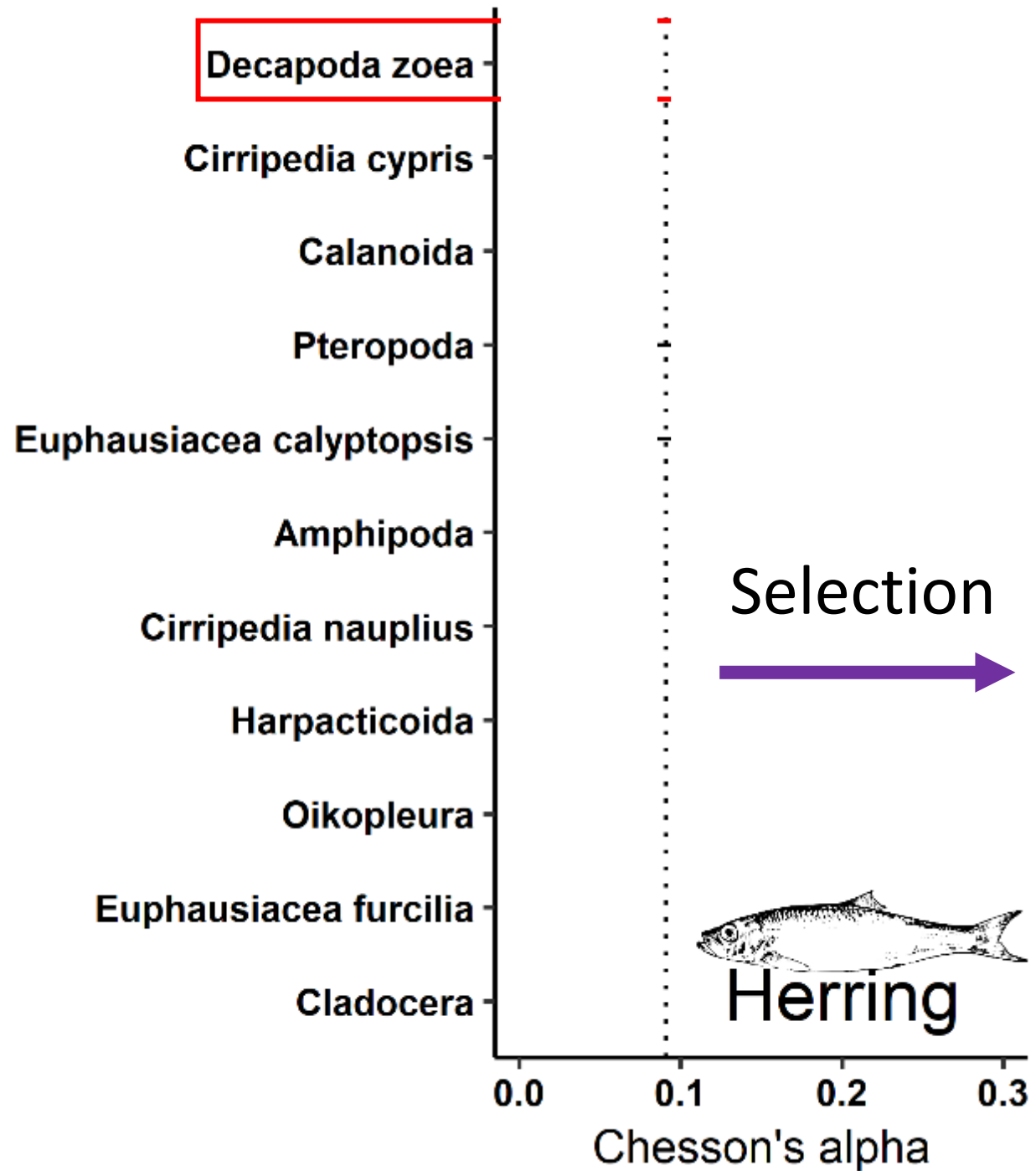
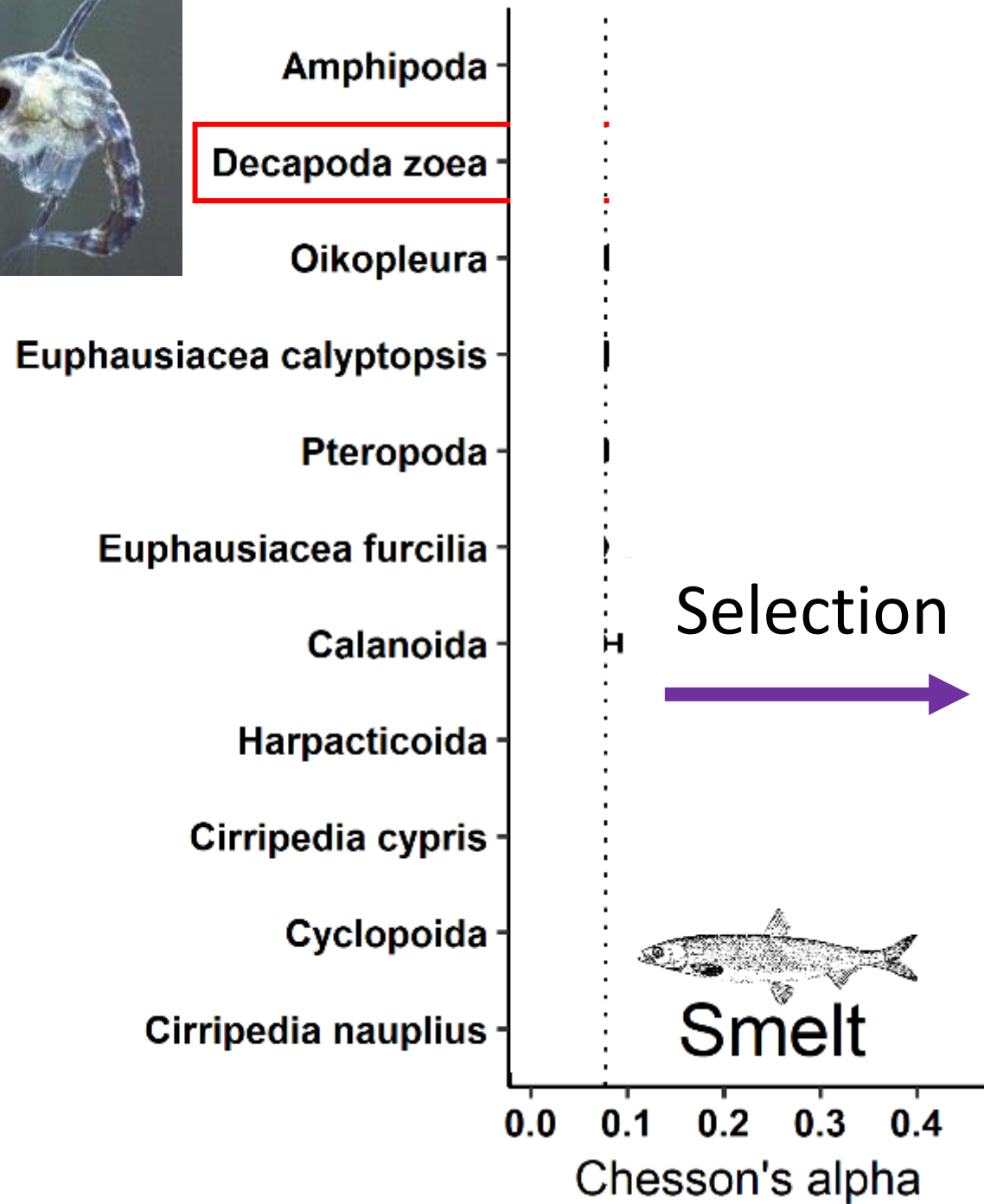


Prey species



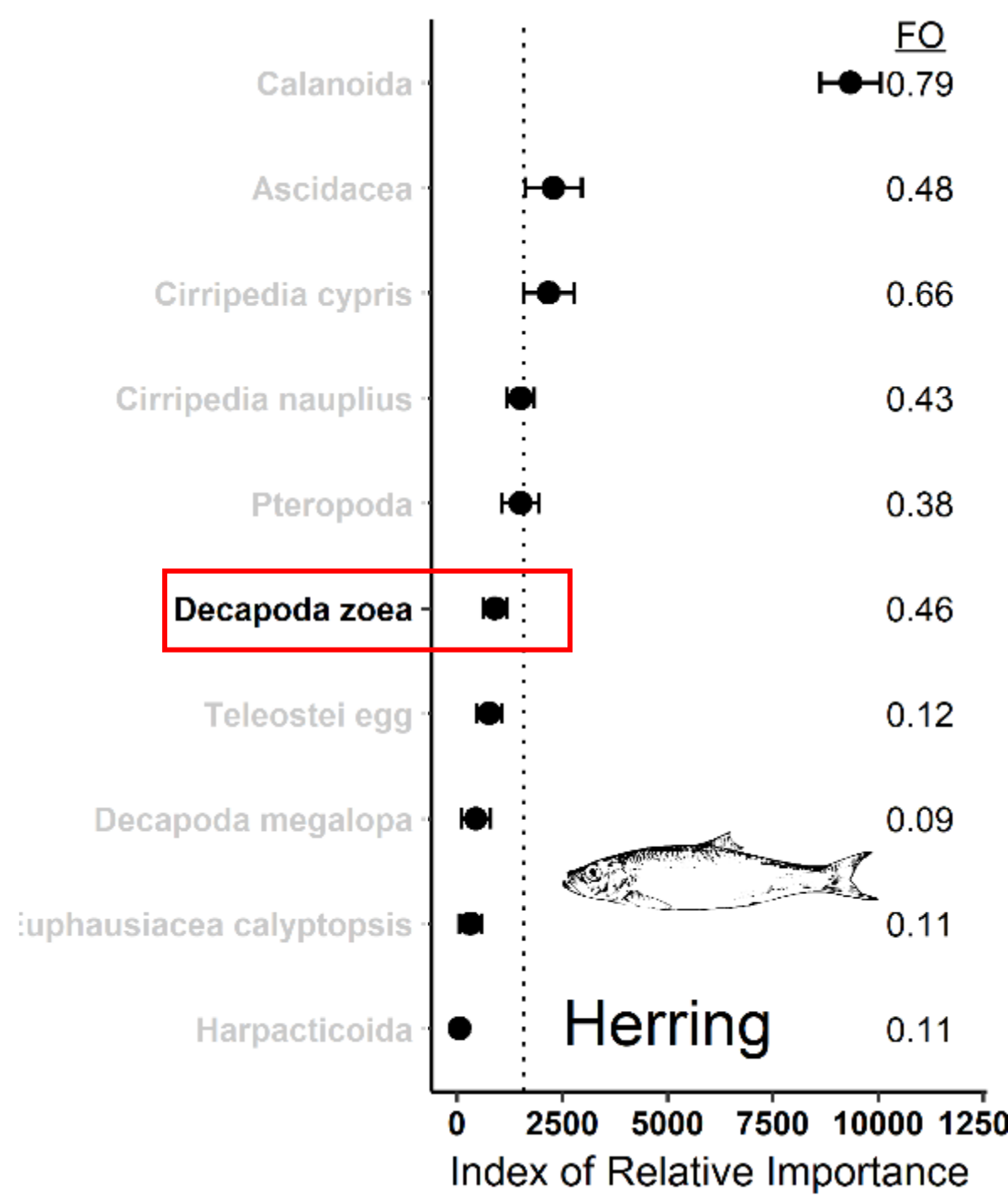
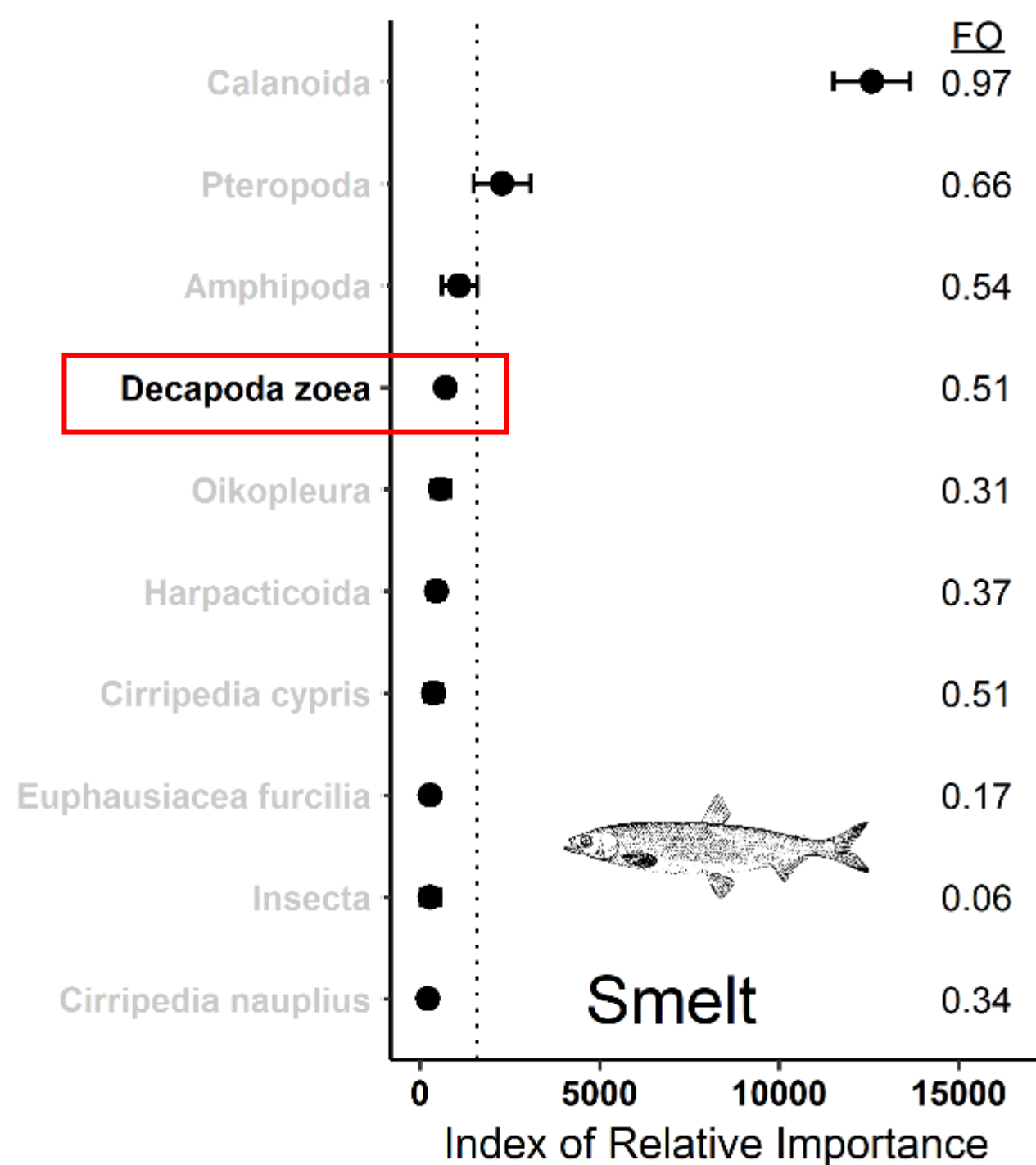


Prey species





Prey species





Amphipoda



Prey species

Cirripedia cypris



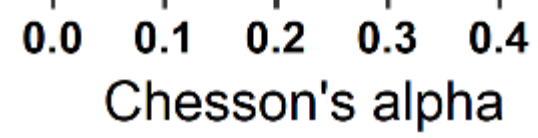
Cyclopoida



Cirripedia nauplius



Smelt



Decapoda zoea

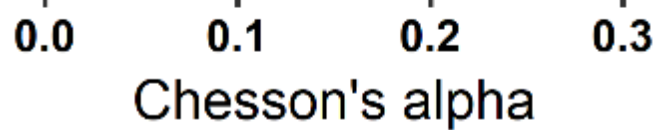


Cirripedia cypris



Herring

Cladocera

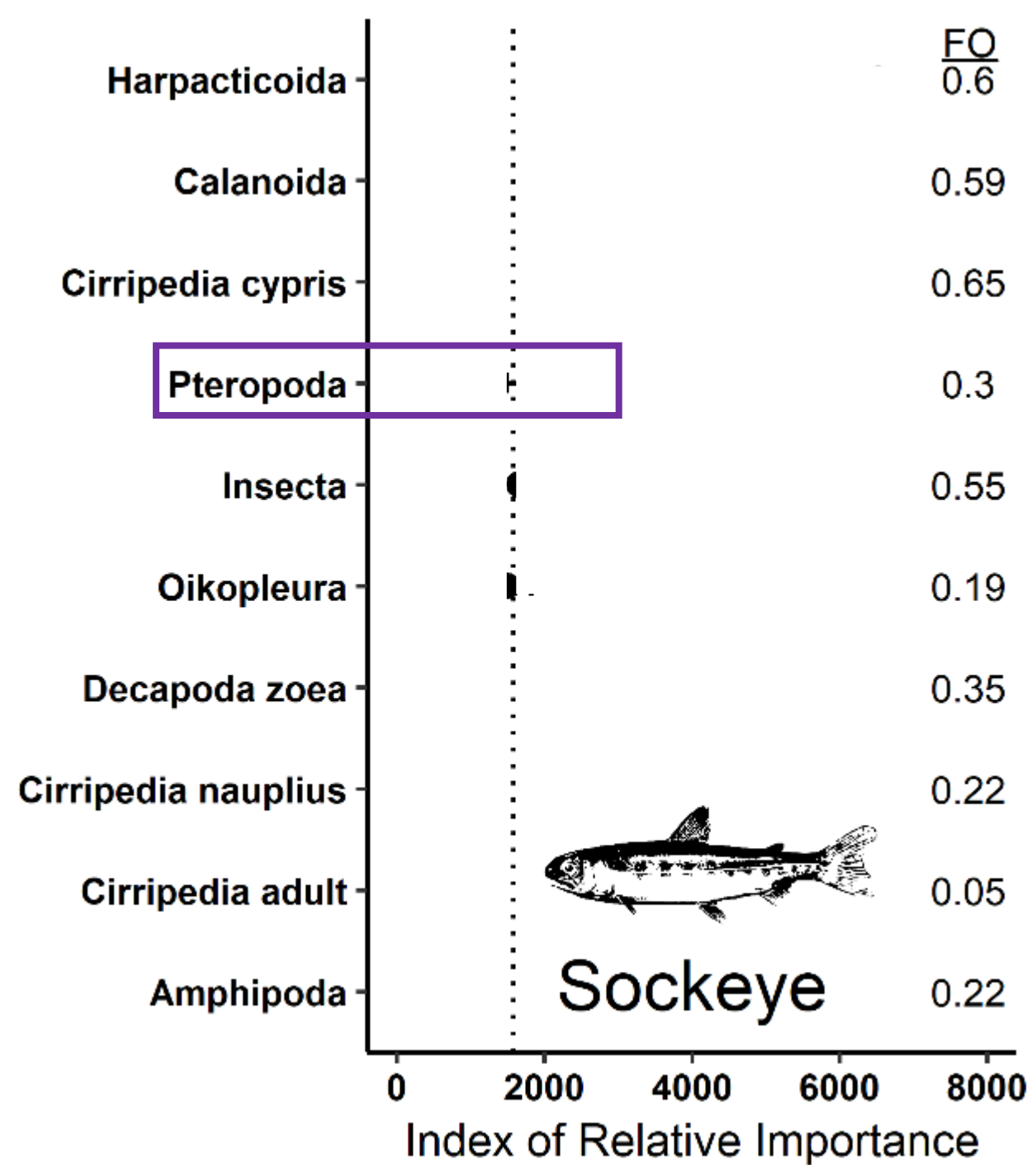
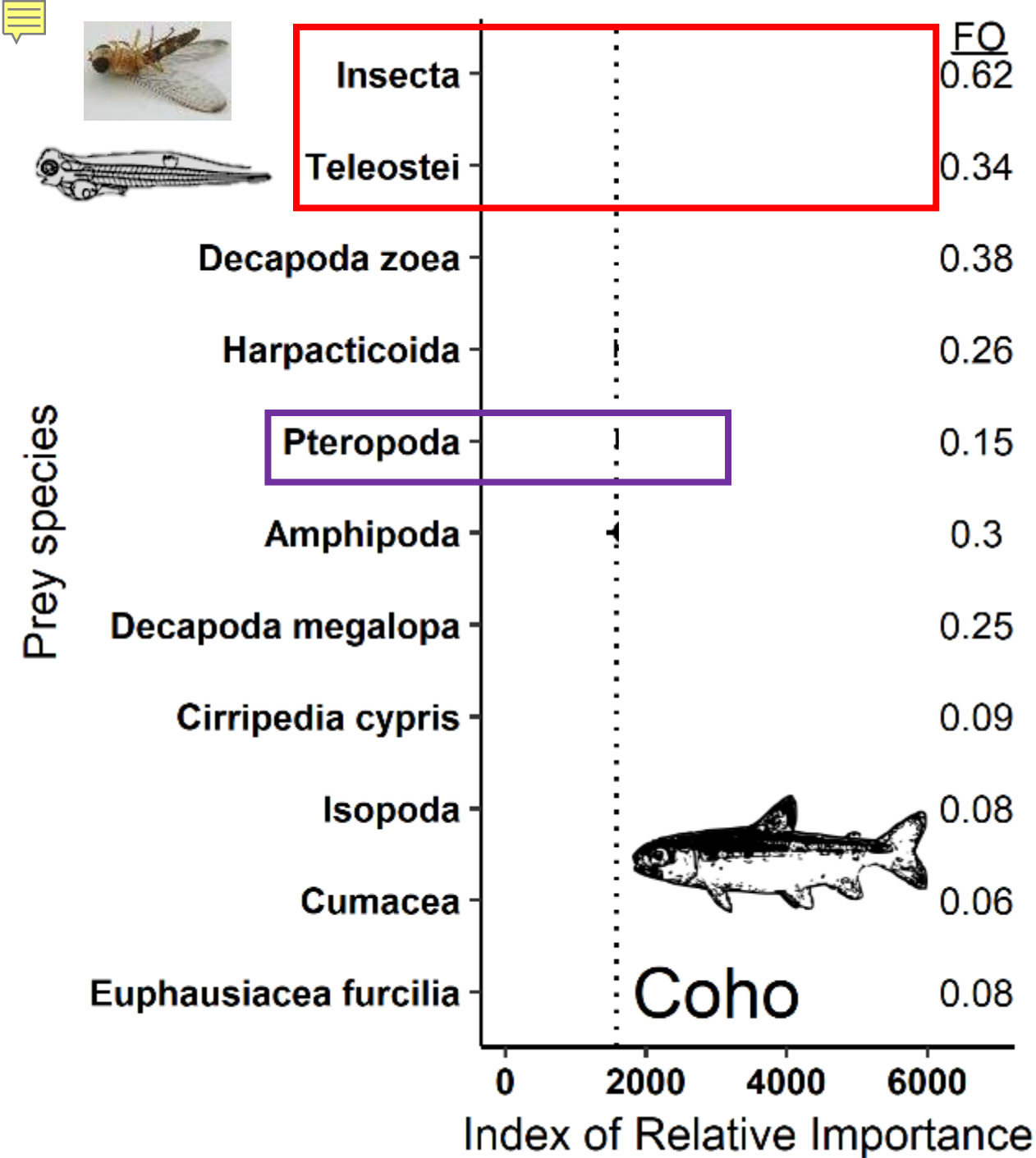




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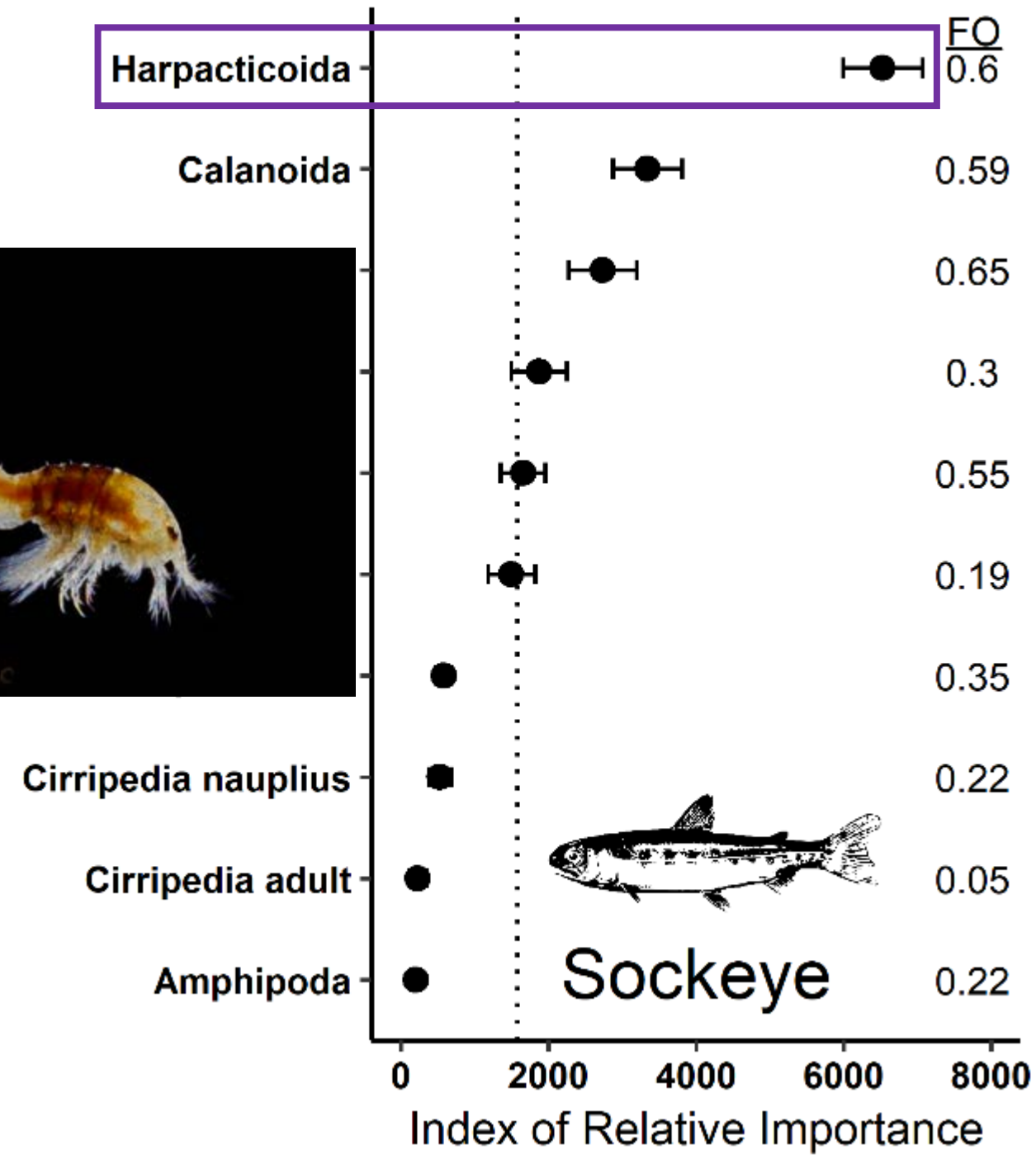
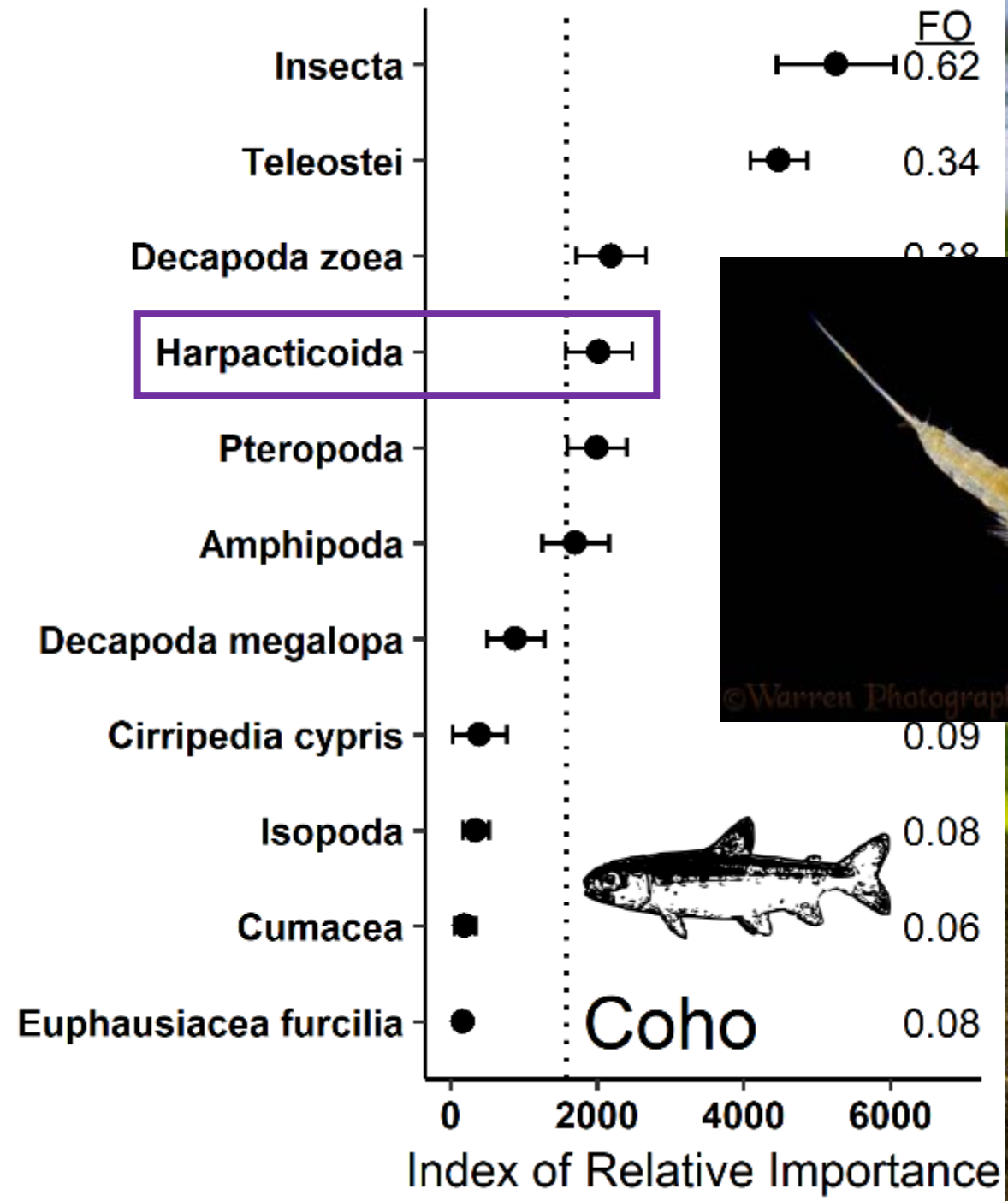


Photo: Tavish Campbell



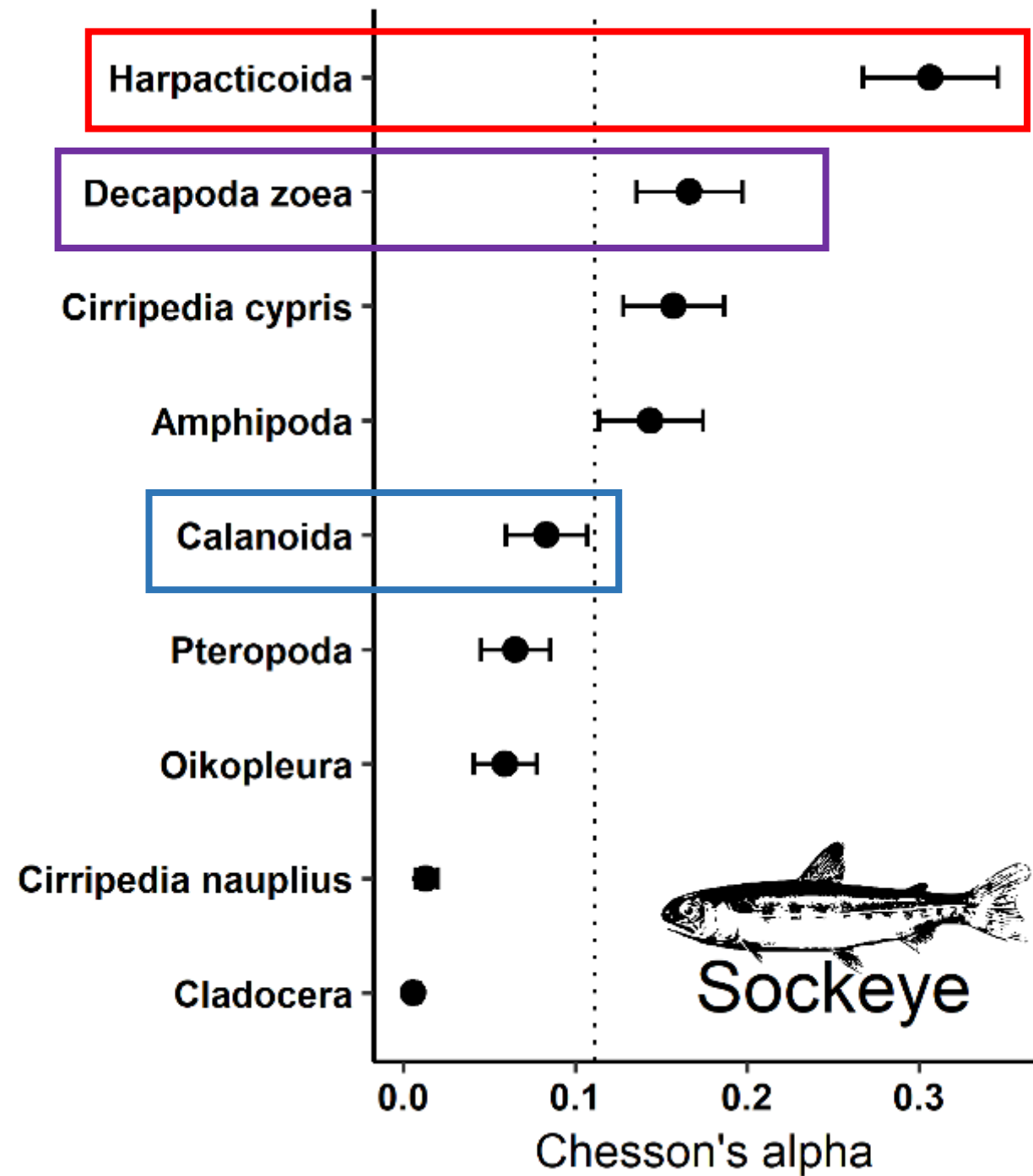
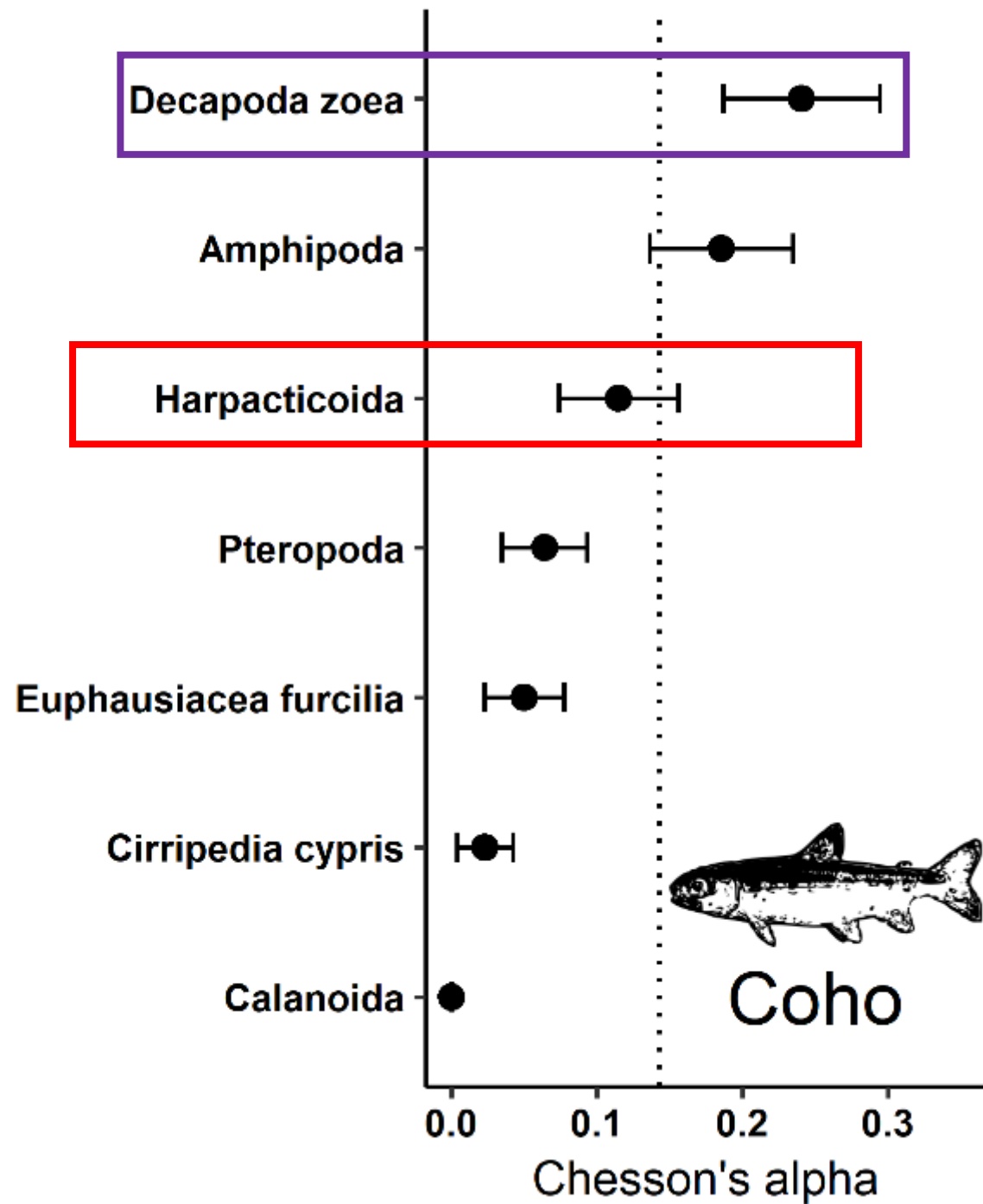


Prey species





Prey species



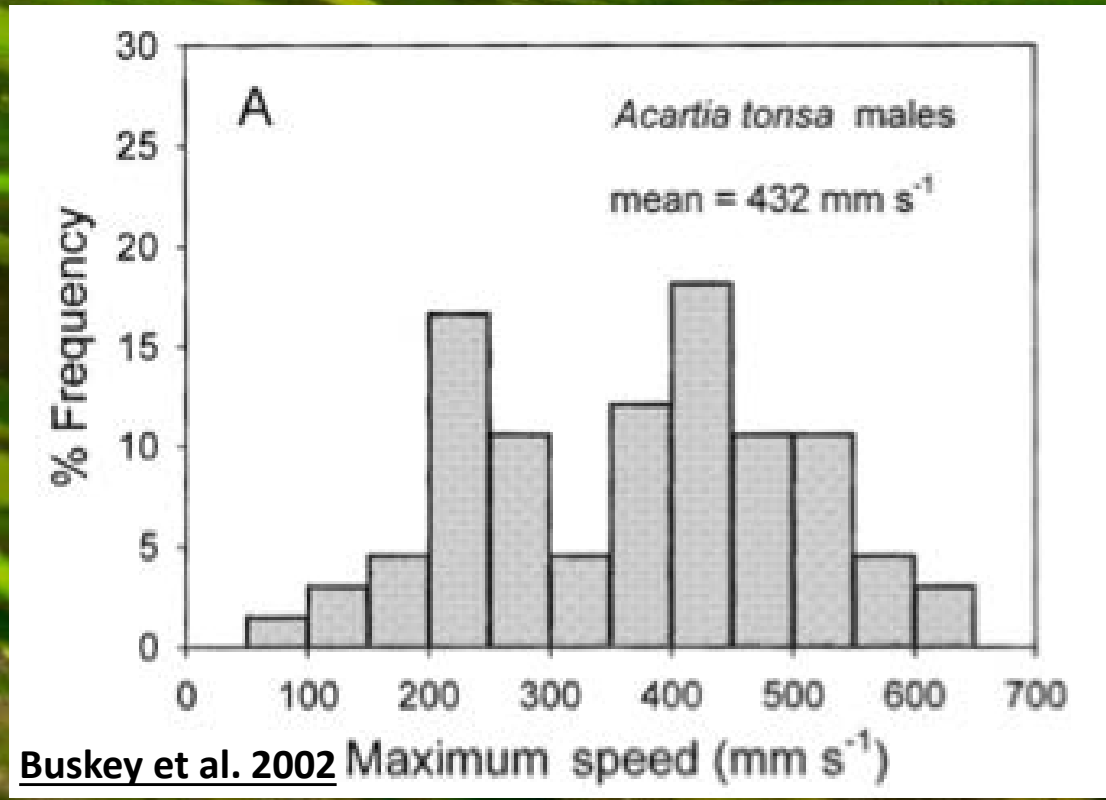


Photo: Tavish Campbell



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Photo: Tavish Campbell



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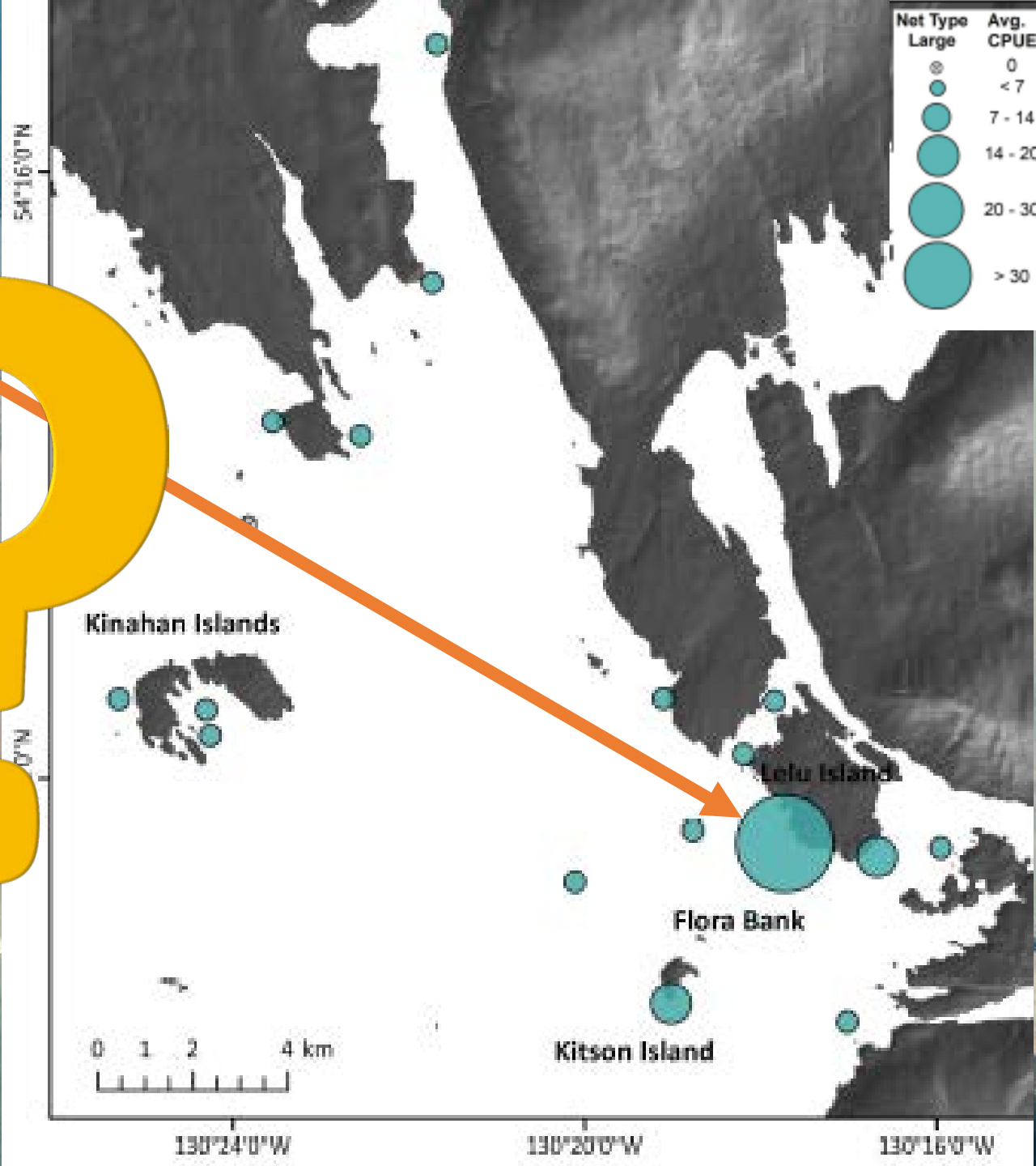


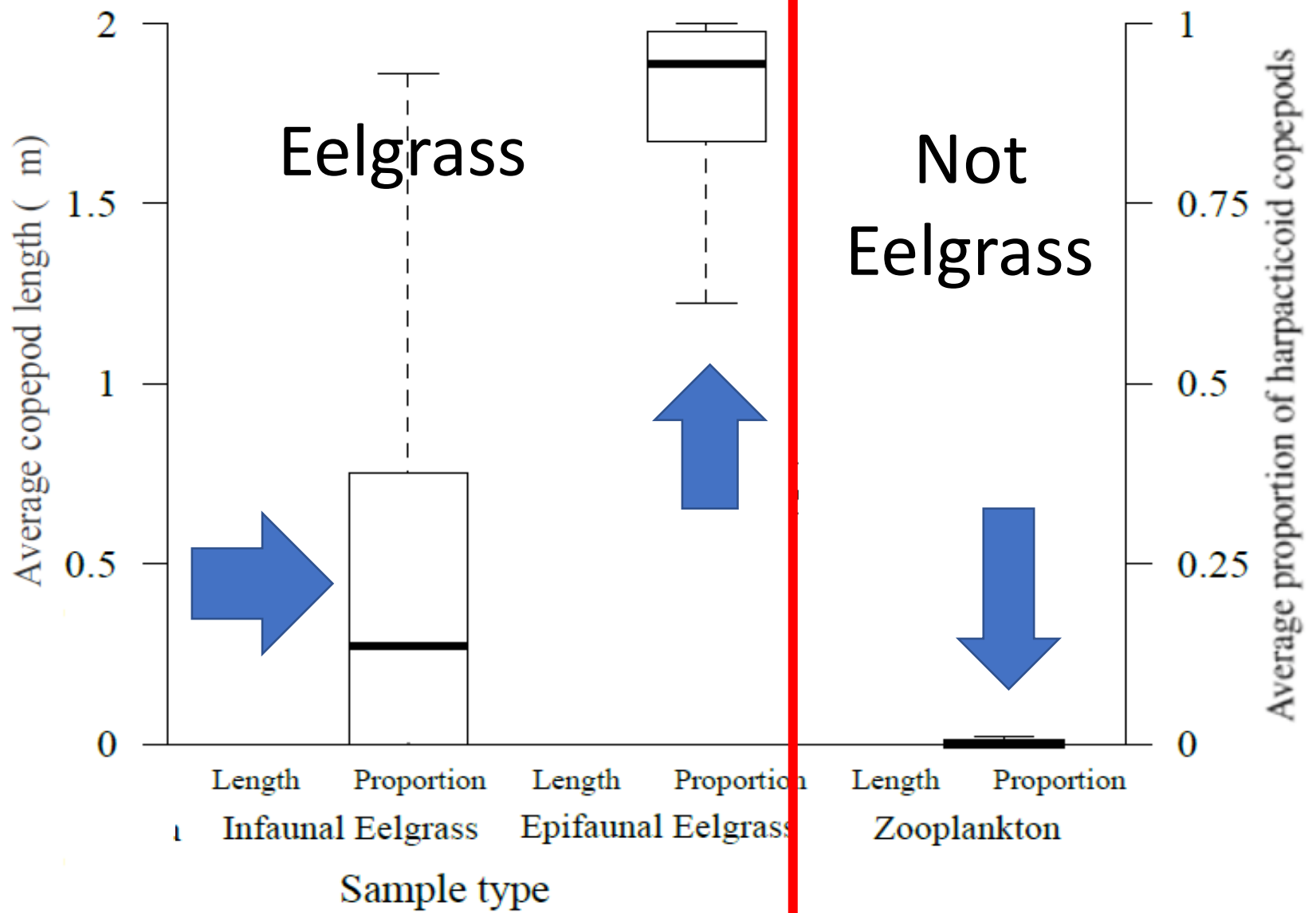
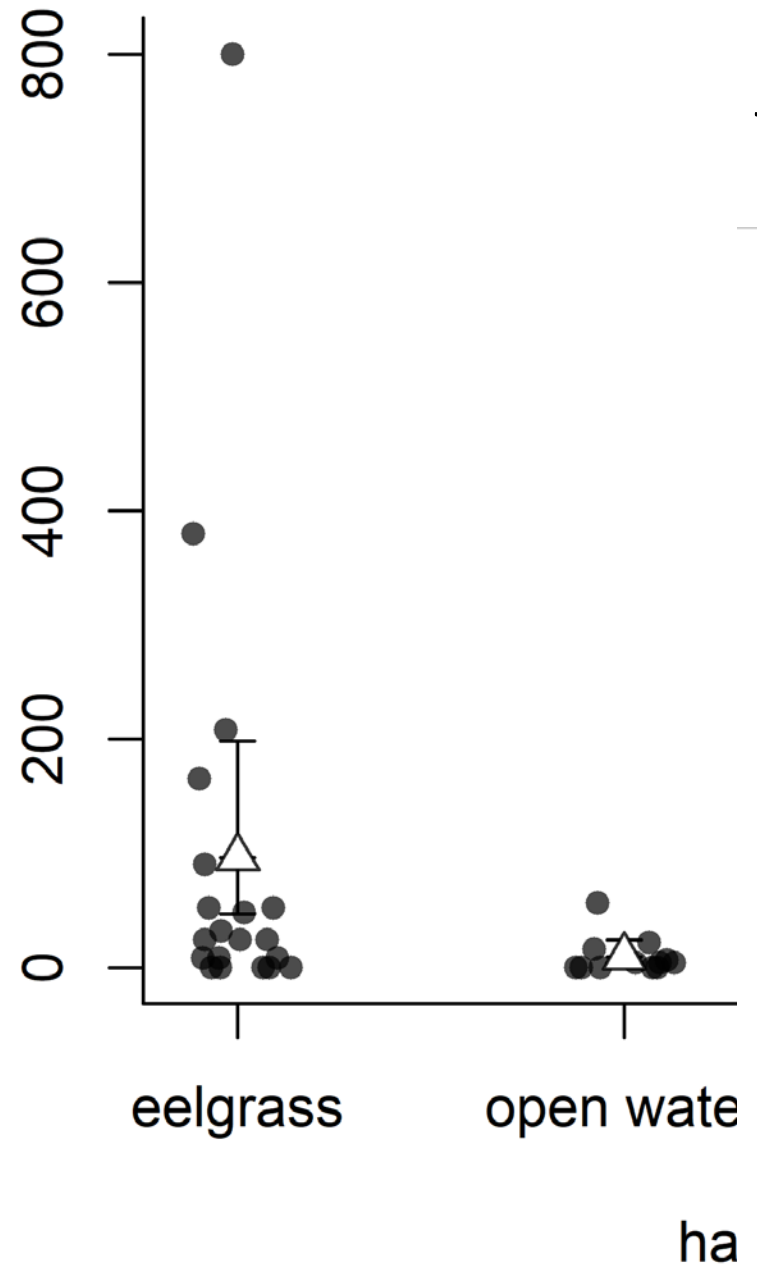
Photo: Jonathan Moore

Sharpe et al. *Submitted*



Eelgrass habitat as near-shore foraging grounds for juvenile Pacific salmon - Kennedy et al. Msc. Thesis 2017
 Sibert 1979 & Healey 1979

abundance / 5 m tow



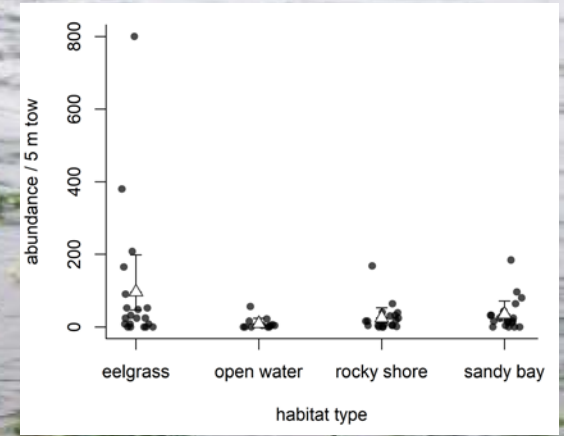
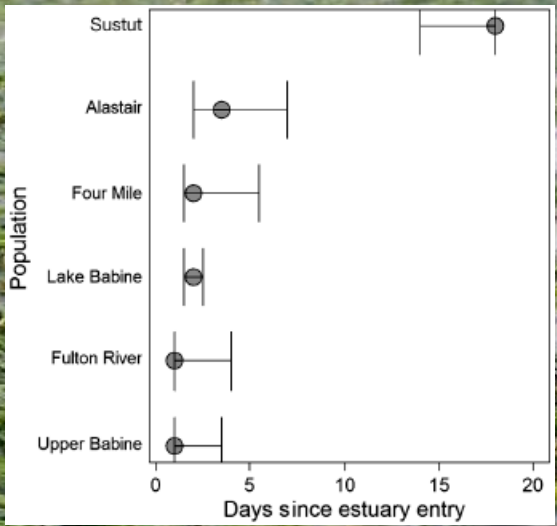
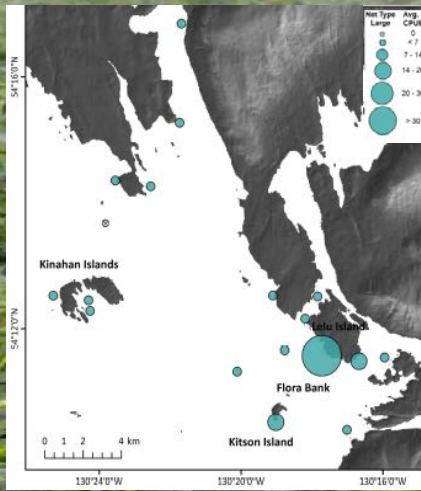
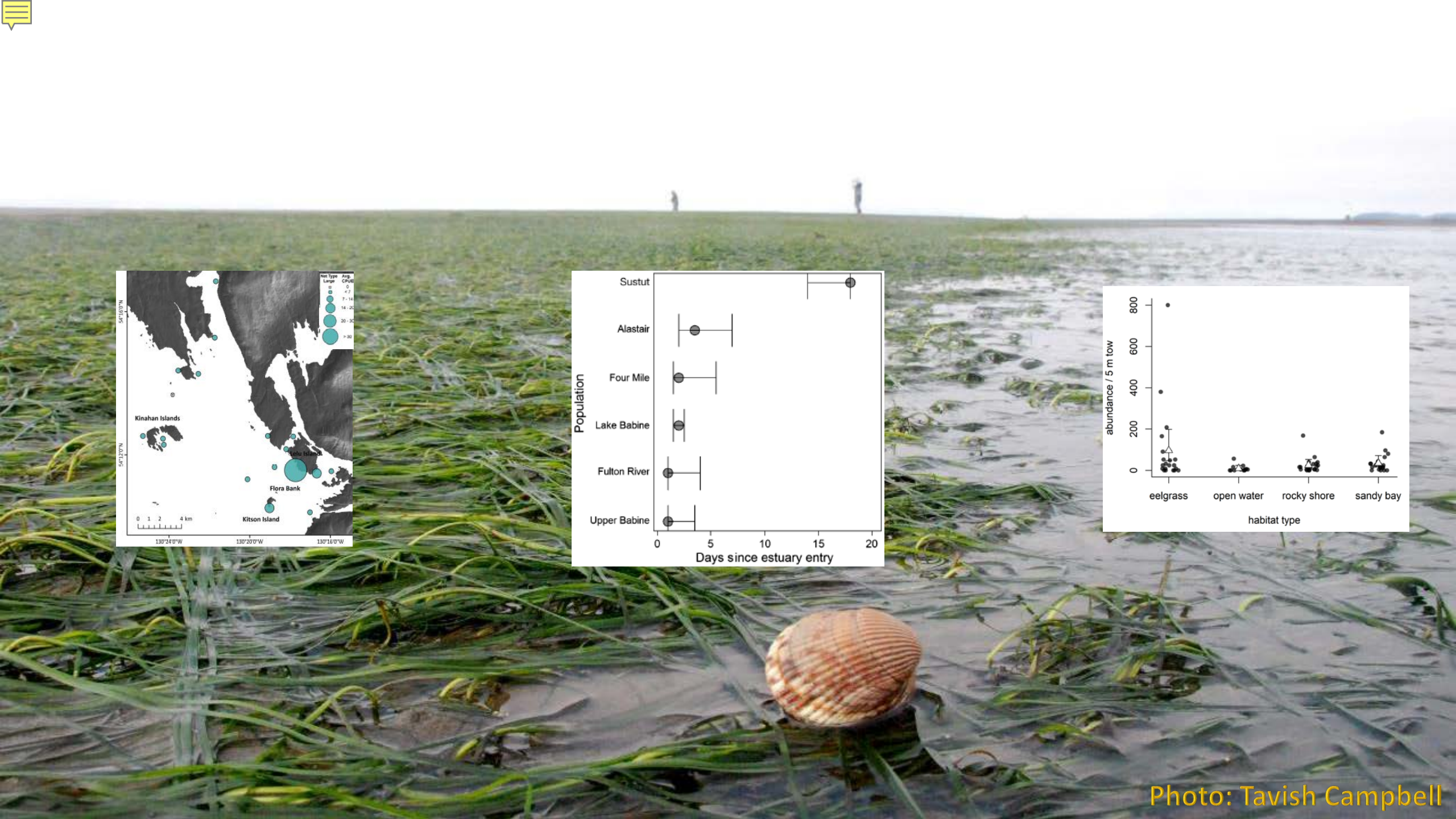


Photo: Tavish Campbell



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The image is a composite. The top half shows a surface view of water with gentle ripples, reflecting a bright sky. The bottom half shows an underwater view of a fish, likely a juvenile salmon, swimming near a bed of dark sand and green eelgrass. The fish is positioned in the lower-left quadrant of the underwater scene. A semi-transparent white text box is overlaid on the center of the image.

Eelgrass (specifically Flora Bank) can be incredibly important

Stomachs tell interesting and informative tales

Small pelagic fishes and juvenile salmon integrate with Estuary seascapes in a variety of overlapping yet distinct ways



SFU

Thank You



Skeena Fisheries Commission



Lax Kw'alaams Fisheries

