

Metadata for Video S1

Journal Name: Ecological Monographs

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**Manuscript title: Edge-focused network-based approach:
an improved kernel density estimator for home range**

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Caption for Video S1

We used a 43.4 cm \times 30 cm trough of water, inside which we placed five cups (forbidden regions) and allowed a fish to move freely. The radius of each of the (circular) forbidden regions was 4.6 cm. The coordinates of the centers (in cm) were (-6.69,-6.06), (5.81,-6.56), (-13.49,4.74), (-0.69,7.54) and (11.21,4.94). A video of 100 seconds was recorded to get real data on fish movement to understand how the different methods, presented in the manuscript, respond to forbidden regions and narrow corridors. Further analysis, results and conclusion are presented in Section 10 of the manuscript.

Videographer credit

The video was recorded by Jayanth Vyasankere.