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## Identifying critical areas and habitat preferences of bottlenose dolphins *Tursiops truncatus*

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**ABSTRACT:** We present the findings of a 2-yr study of habitat use by bottlenose dolphins along the west coast of Ireland. Data were collected during repeated, standardized surveys of a predefined 150 km<sup>2</sup> area of the outer estuary. Areas found to exceed a uniformity index and delimited using the 50% contour derived from harmonic mean transformation. The preferential use of areas of the estuary with the greatest benthic structural complexity and environmental heterogeneity on habitat use by this species. Additionally, the frequent sightings of uniquely marked dolphins which provided distribution data for frequently sighted dolphins overlapped, a degree of partitioning was found. The methods presented here could be applied at a range of spatial scales. Identifying critical areas within a population's range is a priority when planning any conservation strategy.

**KEY WORDS:** Bottlenose dolphins · Habitat use · Critical areas · Conservation

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