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Introduction

Results

The Atlantic spotted dolphin is a endemic species of the Atlantic Ocean. Its diet is based mainly based on mesopelagic fishes.

The most predated species was *Hygophum taanigi* who belongs to Myctophidae family.



Fig. 1 Adult of Atlantic spotted dolphin (Foto Teo Lucas)

Material and methods

This study analised te stomach content of 25 dolphins (*Stenella frontalis*) that strandend in the Canary Islands among 1994 and 2015. A total of 2233 otoliths were analyzed and identified. Of the total number 221 remained unidentified.

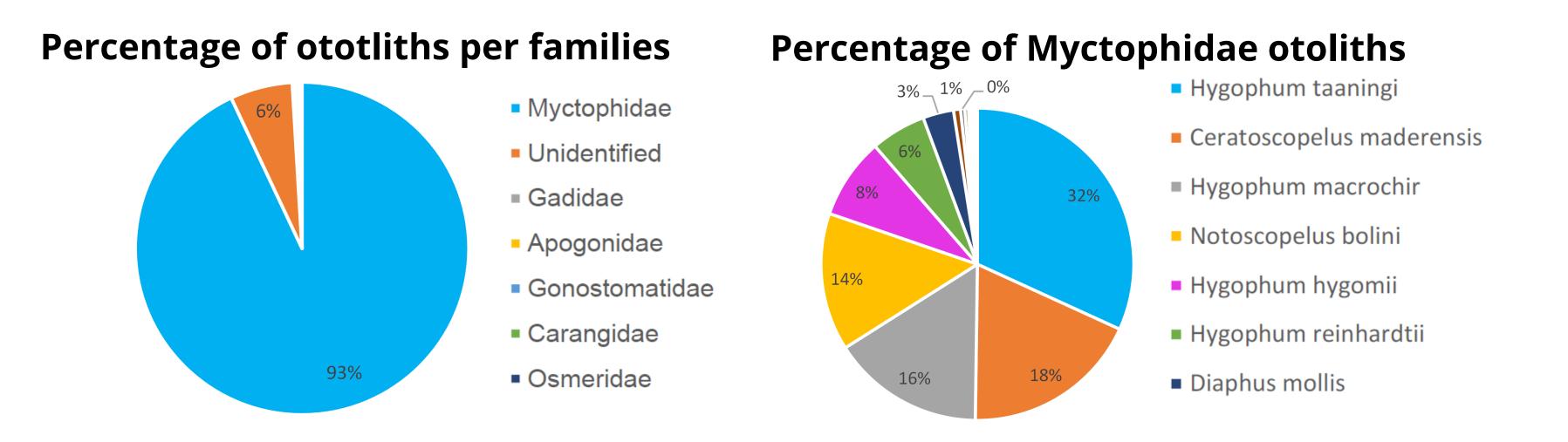


Fig. 3 Percentatge of otoltihs belonging to myctophidae family predated by the Atlantic spotted dolphin (*Stenella forntalis*)

Fig. 4 Percentatge of otoltihs belonging to the different families predated by the Atlantic spotted dolphin (*Stenella forntalis*)

Conclusions

The main objective was quantify the prey (fish) preyed by dolphins based on the morphological characteristics of the otoliths in order to know the trophic

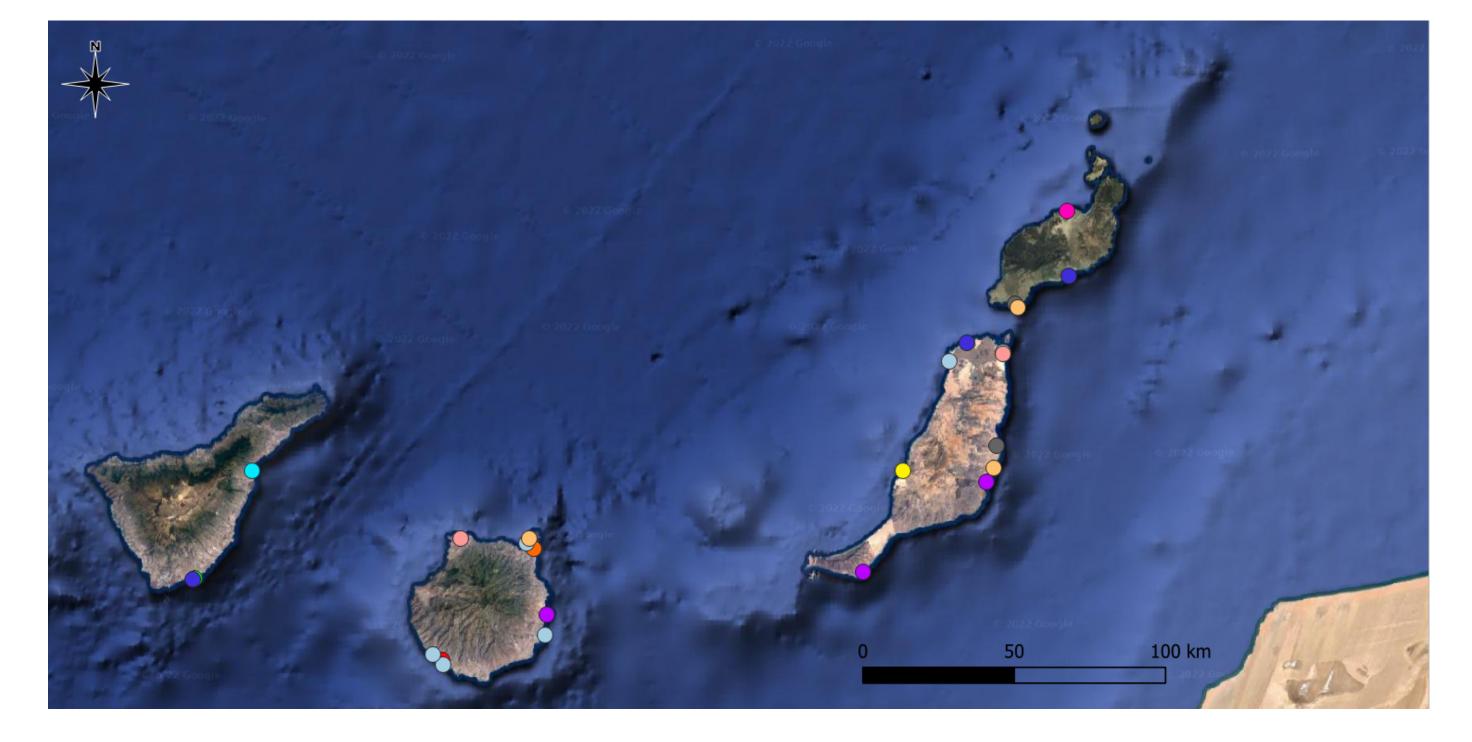


Fig. 2 Location of the 25 Atlantic spotted dolphin (*Stenella frontalis*) stranded from 1994 to 2015.

preference of the species in the archipelago, just us evaluate the abundance and diversity of species along a period of 21 years. Otoliths identification were classified according to their morphological characteristics with the aid of a binocular lens.



Fig. 5 Otolith from Hygophum taaningi

Fig. 6 Otolith from Diaphus metopoclampus



Fig. 7 Otolith from Gonostoma denudatum



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