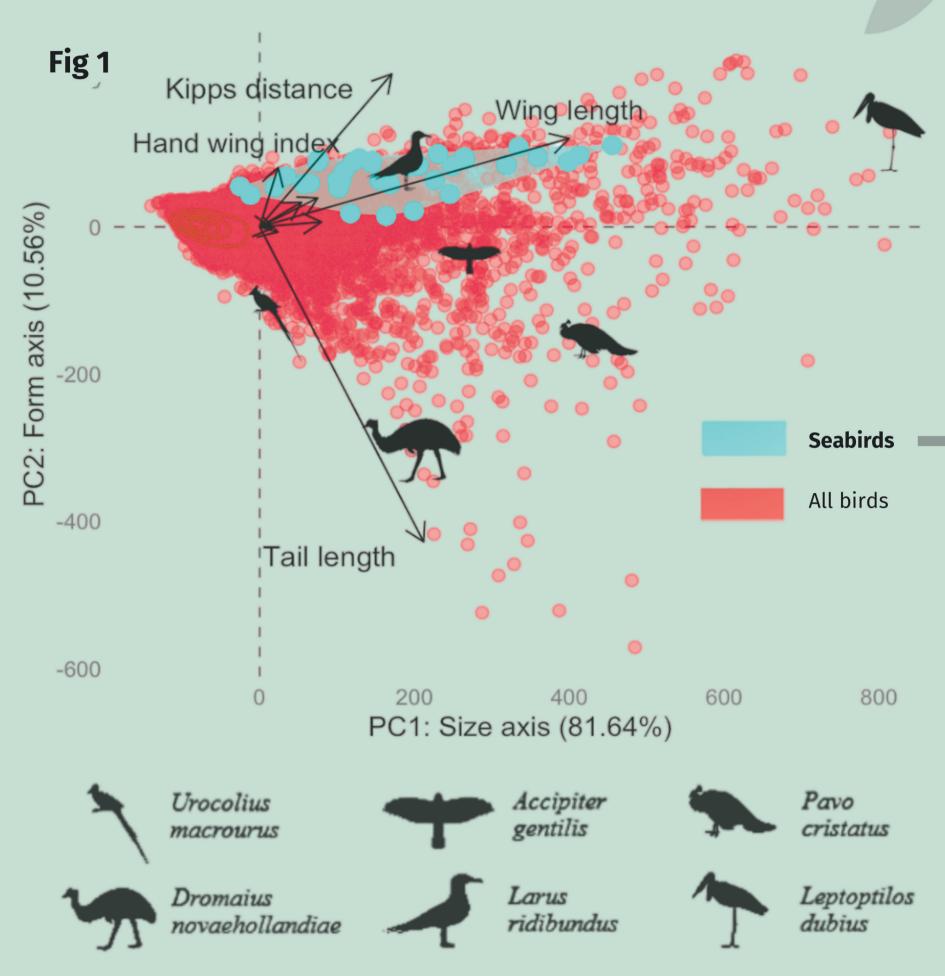
NORTH ATLANTIC SEABIRDS

MORPHOLOGY OF LIFE HISTORY TRAITS



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Trait space

Mapping bird morphology using principal component analysis, we how seabirds can see differ in terms morphology from the rest of the avian taxa.

Running a PCA on the selected north Atlantic seabirds (fig. 2) reveals the main components variation, namely size and hand wing index; dive type. Ly Independent PC analysis based on AVONET samples.

Beak length nares

Kipp's distance

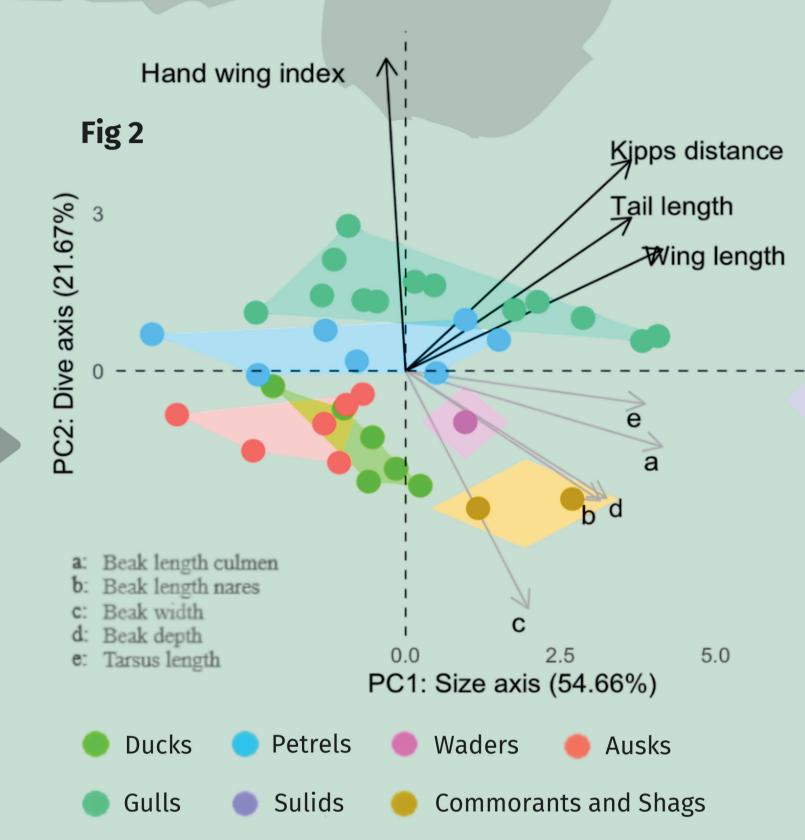
Hand wing index

Beak length culmen

Beak length

Beak width

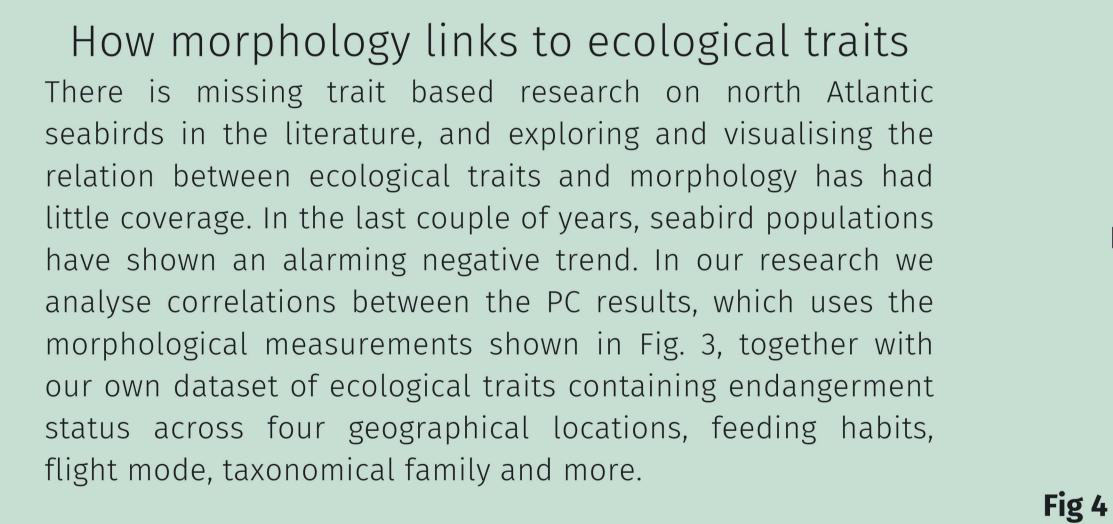
Fig 3



Tarsus length

Tail length

Wing length



Multiple correlations identified!

Morphological traits does in fact explain many ecological traits and can even reveal evolutionary trade-offs in north Atlantic seabirds. Of these correlations, statistically significant results are expanded upon through boxplots (Fig. 4) Size seems to explain a large proportion of variation in both global and seabird trait space, but seabirds differ in their secondary

