

**Supplementary material**

1 **SUPPLEMENTARY MATERIAL**

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3 **Common Guillemot and Razorbill museum collection information**

4 The Common Guillemot museum collection eggs (n = 110) were from the National Museum Wales and  
5 consisted of eggs from the following colonies within the county of Pembrokeshire:

6 'Pembrokeshire Islands' (n = 7)

7 Skomer Island (n = 3)

8 Ramsey Island (n = 7)

9 Grassholm (n = 11)

10 'Caraig Rasson, Pembrokeshire' (n = 28)

11 North Bishop (n = 54)

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13 The Razorbill museum collection eggs (n = 86) were from the National Museum Wales and consisted  
14 of eggs from the following colonies within the county of Pembrokeshire:

15 North Bishop (n = 42)

16 'Caraig Rasson, Pembrokeshire' (n = 8)

17 'Pembrokeshire Islands' (n = 10)

18 Ramsey Island (n = 20)

19 Skomer Island (n = 3)

20 Grassholm (n = 3)

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22 **Comparisons of shape indices between breeding seasons for the Common Guillemot and Razorbill**

23 **field egg collections**

24 Comparing Common Guillemot eggs collected on Skomer Island during the 2014-2018 breeding  
25 seasons, we found no significant differences in the mean pointedness (ANOVA:  $F_{(4, 274)} = 0.91, p = 0.46$ ),  
26 elongation (ANOVA:  $F_{(4, 274)} = 1.57, p = 0.18$ ) and polar asymmetry (ANOVA:  $F_{(4, 274)} = 0.63, p = 0.64$ )  
27 across different breeding seasons. Similarly, we found no significant differences in the mean  
28 pointedness (ANOVA:  $F_{(3, 54)} = 1.17, p = 0.33$ ), elongation (ANOVA:  $F_{(3, 54)} = 0.41, p = 0.74$ ) and polar  
29 asymmetry (ANOVA:  $F_{(3, 54)} = 0.51, p = 0.68$ ) between Razorbill eggs collected across the 2015-2018  
30 breeding seasons.

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