



Arklow Bank Wind Park 2

Environmental Impact Assessment Report

Volume III, Appendix 12.6: Offshore Ornithology Technical Report -
Seabird Species Abundance Plots (Revised March 2026)



MacArthur
Green

Arklow Bank Wind Park 2

Appendix 12.06 Offshore Ornithology Technical Report

Seabird Species Abundance Plots (Revised March 2026)

Date: 10 March 2026

Tel: 0141 342 5404

Web: www.macarthurgreen.com

Address: 93 South Woodside Road | Glasgow | G20 6NT

Document Quality Record

Version	Date	Status	Author	Reviewed by	Approved by
1.0	16/05/2024	Final (External)	MacArthur Green	GoBe Consultants	Sure Partners Limited
2.0	10/03/2026	Final External (Revised March 2026)	SLR	GoBe Consultants	Sure Partners Limited

MacArthur Green is helping to combat the climate crisis through working within a carbon negative business model. Read more at www.macarthurgreen.com.



CONTENTS

LIST OF FIGURESII

GLOSSARYIV

UNITS.....IV

1 OFFSHORE ORNITHOLOGY TECHNICAL REPORT – SEABIRD SPECIES ABUNDANCE PLOTS1

 1.1 Introduction1

 1.2 Seabird species abundance plots.....1

LIST OF FIGURES

Figure 1. Arctic / common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. ..1

Figure 2. Arctic skua abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 2

Figure 3. Arctic tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 3

Figure 4. Auk species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 4

Figure 5. Black-headed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. . 5

Figure 6. Common gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. .6

Figure 7. Common scoter abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. . 7

Figure 8. Common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. .8

Figure 9. Cormorant abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 9

Figure 10. Cormorant / shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 10

Figure 11. Diver species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 11

Figure 12. European storm petrel abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 12

Figure 13. Fulmar abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 13

Figure 14. Gannet abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 14

Figure 15. Great black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 15

Figure 16. Great northern diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 16

Figure 17. Guillemot abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.17

Figure 18. Herring gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 18

Figure 19. Kittiwake abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 19

Figure 20. Lesser black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 20

Figure 21. Little gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.21

Figure 22. Manx shearwater abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 22

Figure 23. Puffin abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 23

Figure 24. Razorbill abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 24

Figure 25. Red-throated diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 25

Figure 26. Roseate Tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 26

Figure 27. Sandwich tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 27

Figure 28. Shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping. 28

GLOSSARY

Term	Meaning
Array Area	The Array Area is the area within which the Wind Turbine Generators (WTGs), the Offshore Substation Platforms (OSPs), and associated cables (export, inter- array and interconnector cabling) and foundations will be installed.

UNITS

Unit	Description
km	Kilometre

1 OFFSHORE ORNITHOLOGY TECHNICAL REPORT – SEABIRD SPECIES ABUNDANCE PLOTS

1.1 Introduction

1.1.1 This Technical Report provides monthly seabird abundance plots for species recorded in the Array Area alone and the combined Array Area and 4 km buffer to provide a graphical illustration of seasonal variations. Data were collected during the digital aerial surveys between March 2018 and July 2025, with 43 surveys in total. The tabulated density and abundance data for each species recorded are presented in Volume III, Appendix 12.02: Monthly Seabird Density (Revised March 2026) and Volume III, Appendix 12.03: Monthly Seabird Abundance (Revised March 2026) respectively. It should be noted that the y-axes are scaled for each species and vary accordingly.

1.2 Seabird species abundance plots

1.1.2 Seabird species abundance plots are presented in Figure 1 to Figure 28.

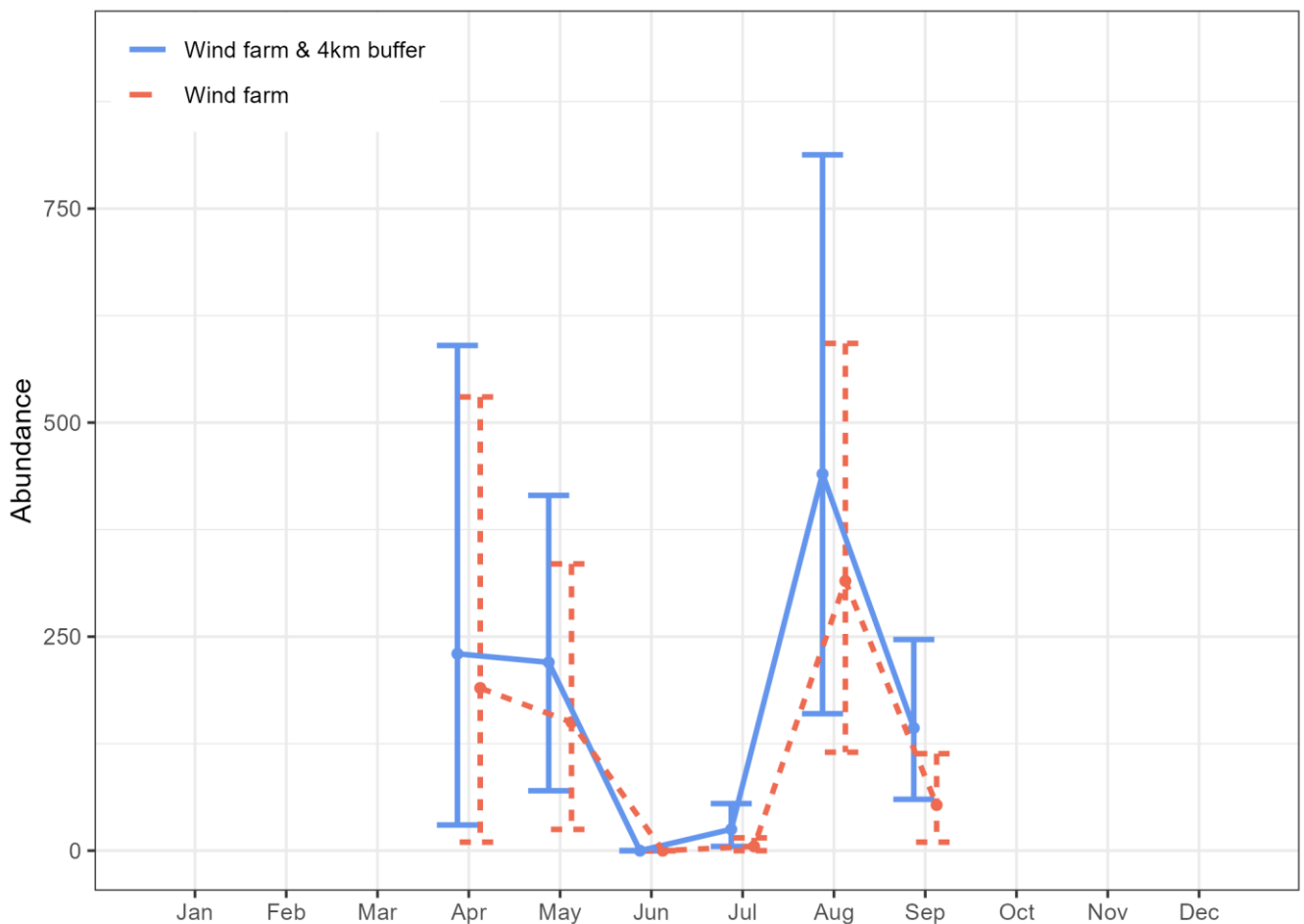


Figure 1. Arctic / common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

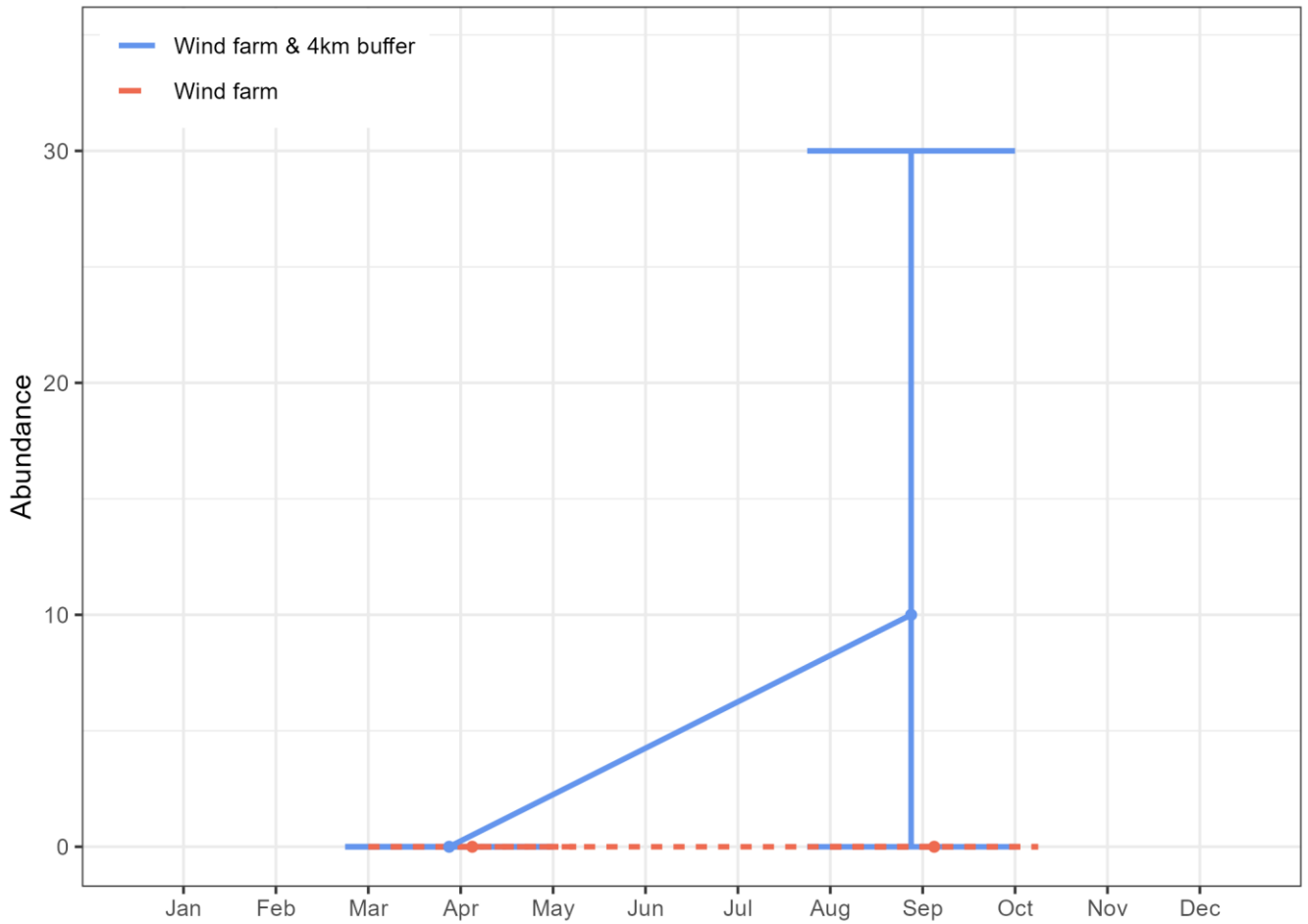


Figure 2. Arctic skua abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

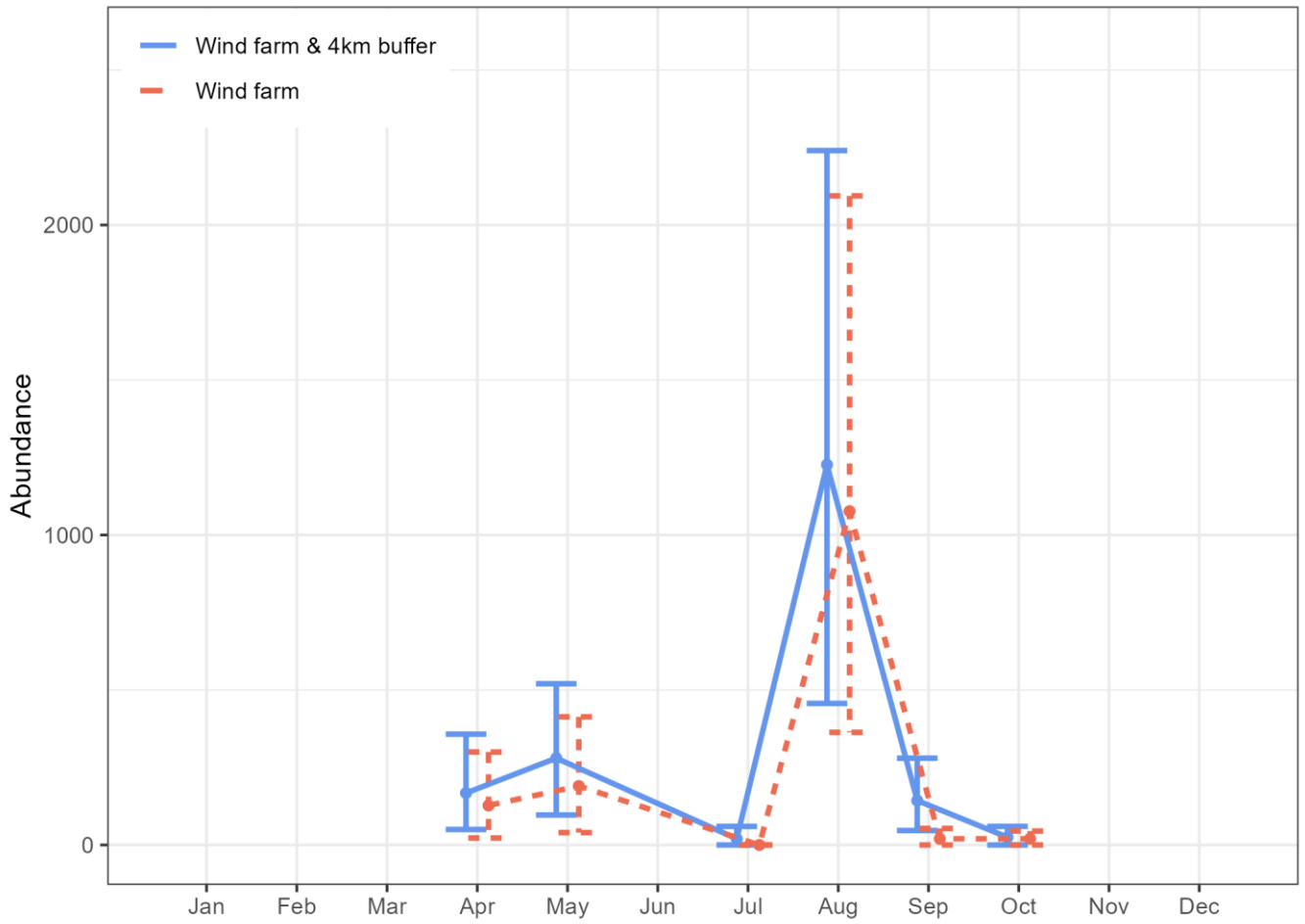


Figure 3. Arctic tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

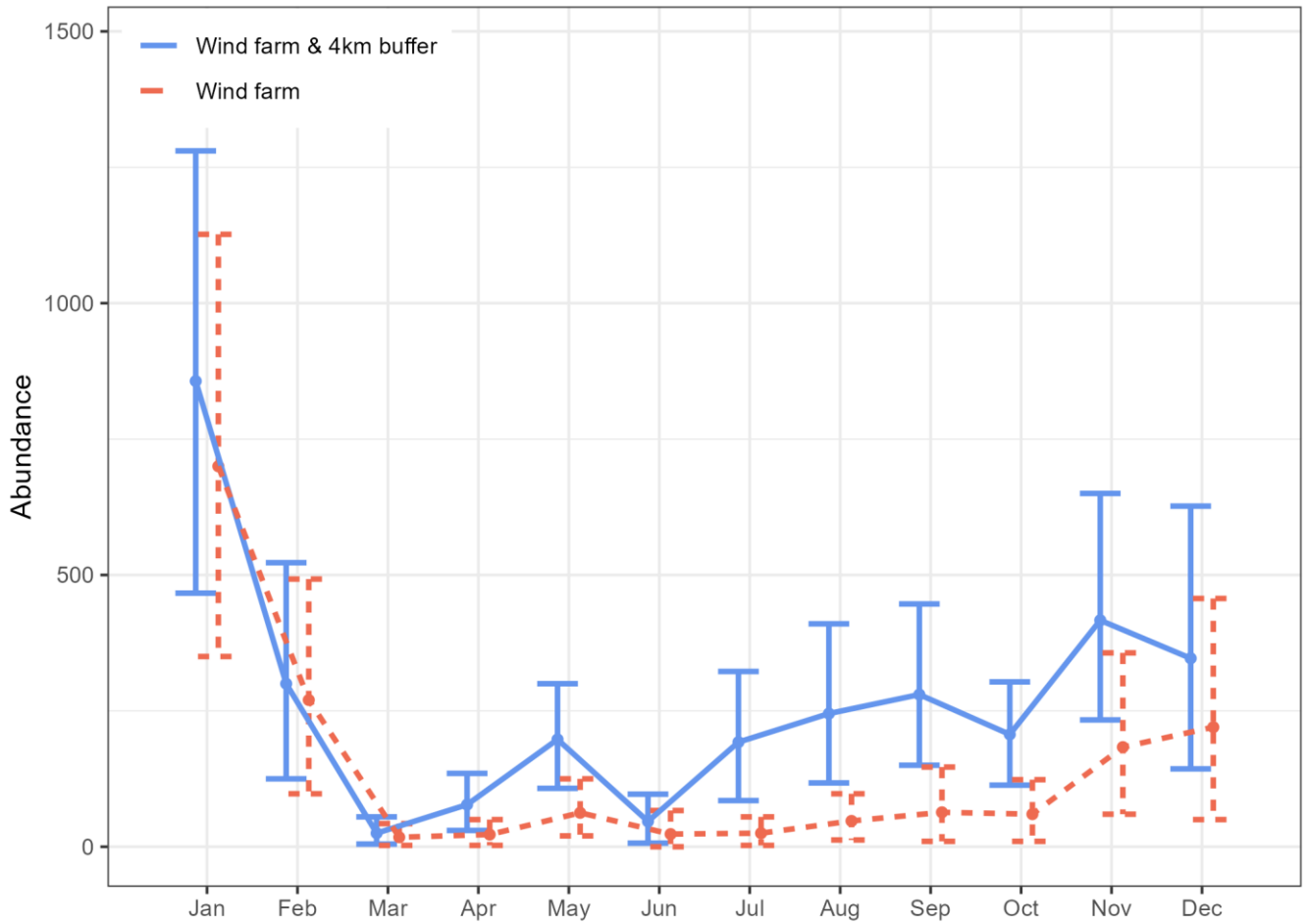


Figure 4. Auk species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

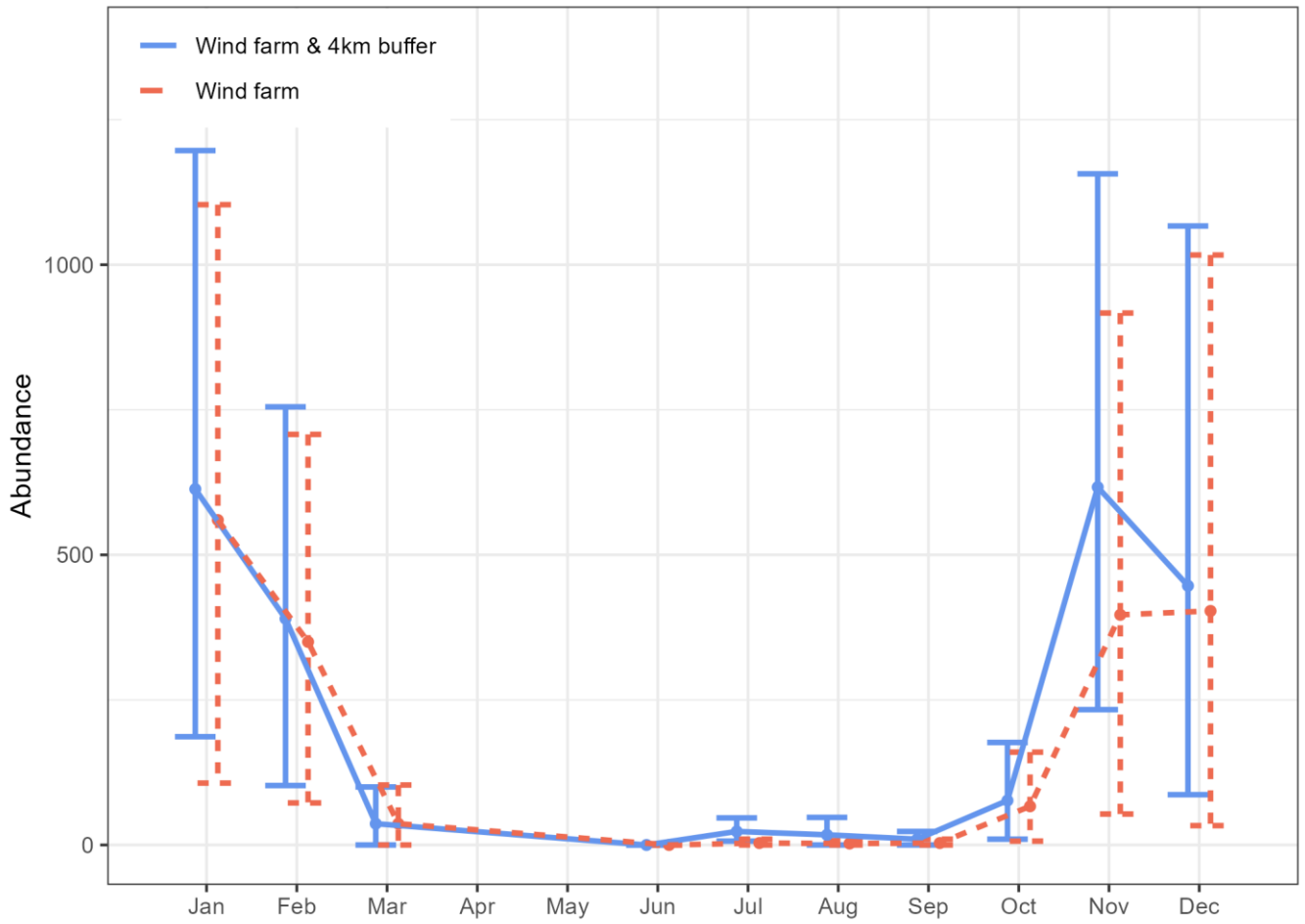


Figure 5. Black-headed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

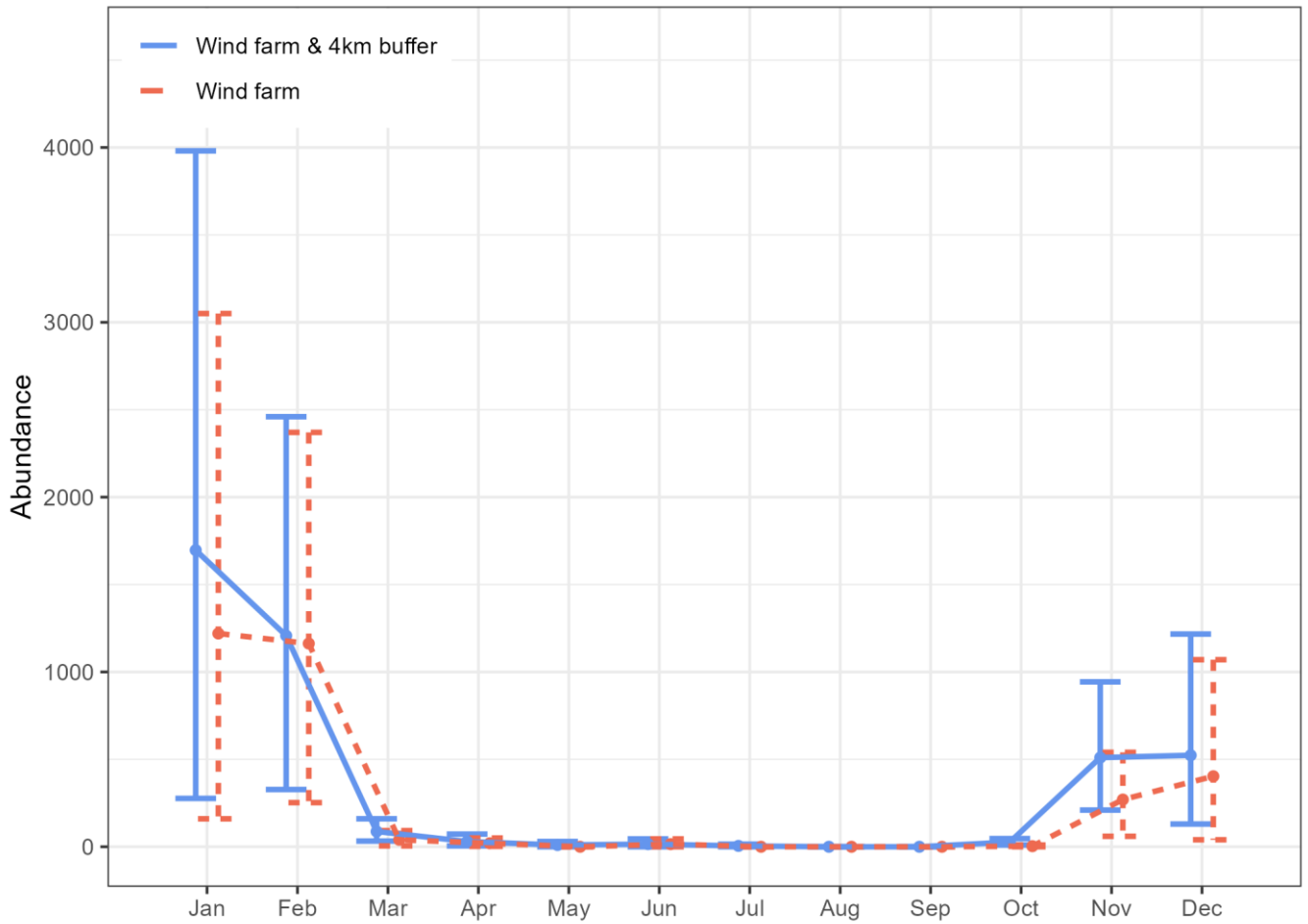


Figure 6. Common gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

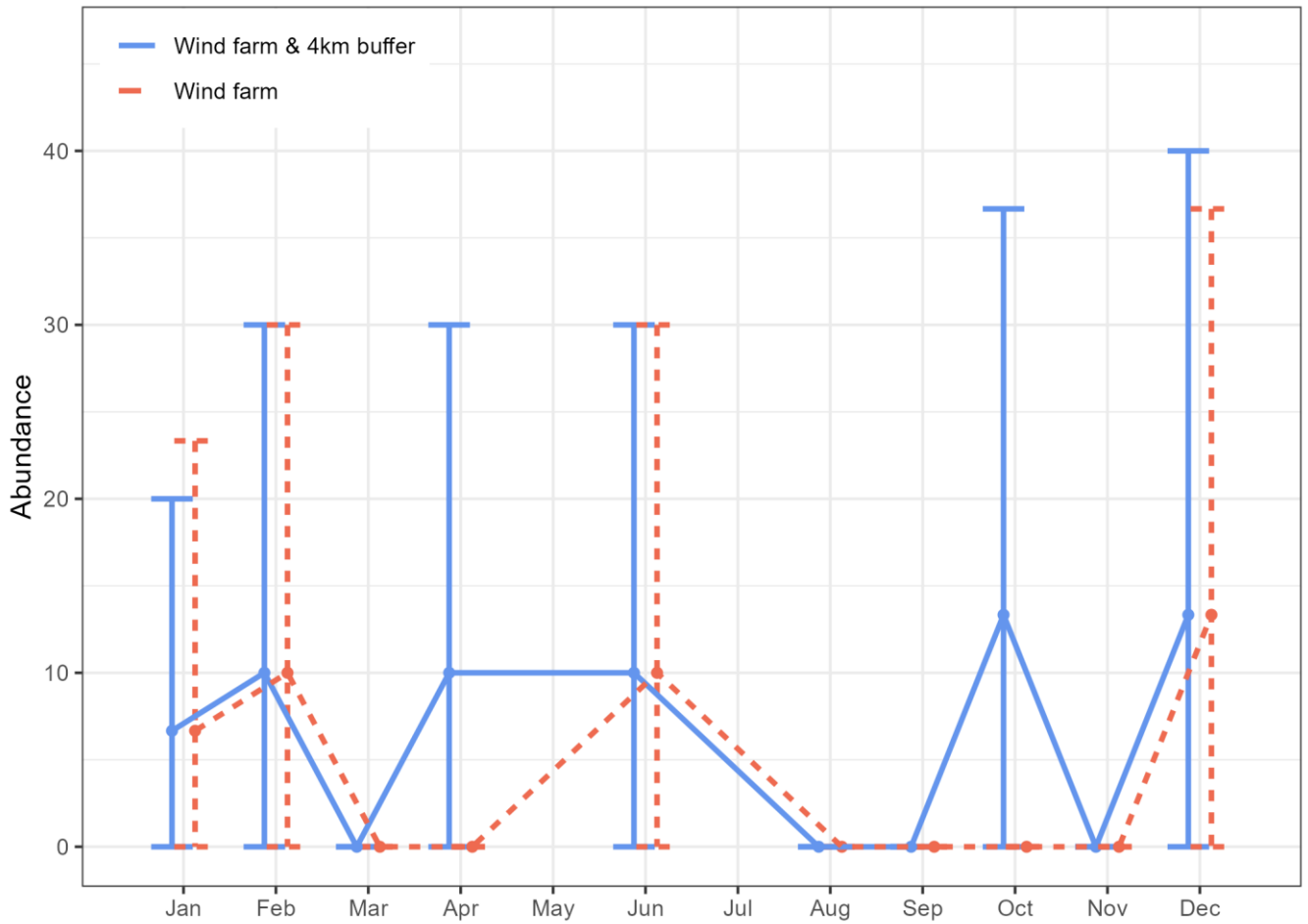


Figure 7. Common scoter abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

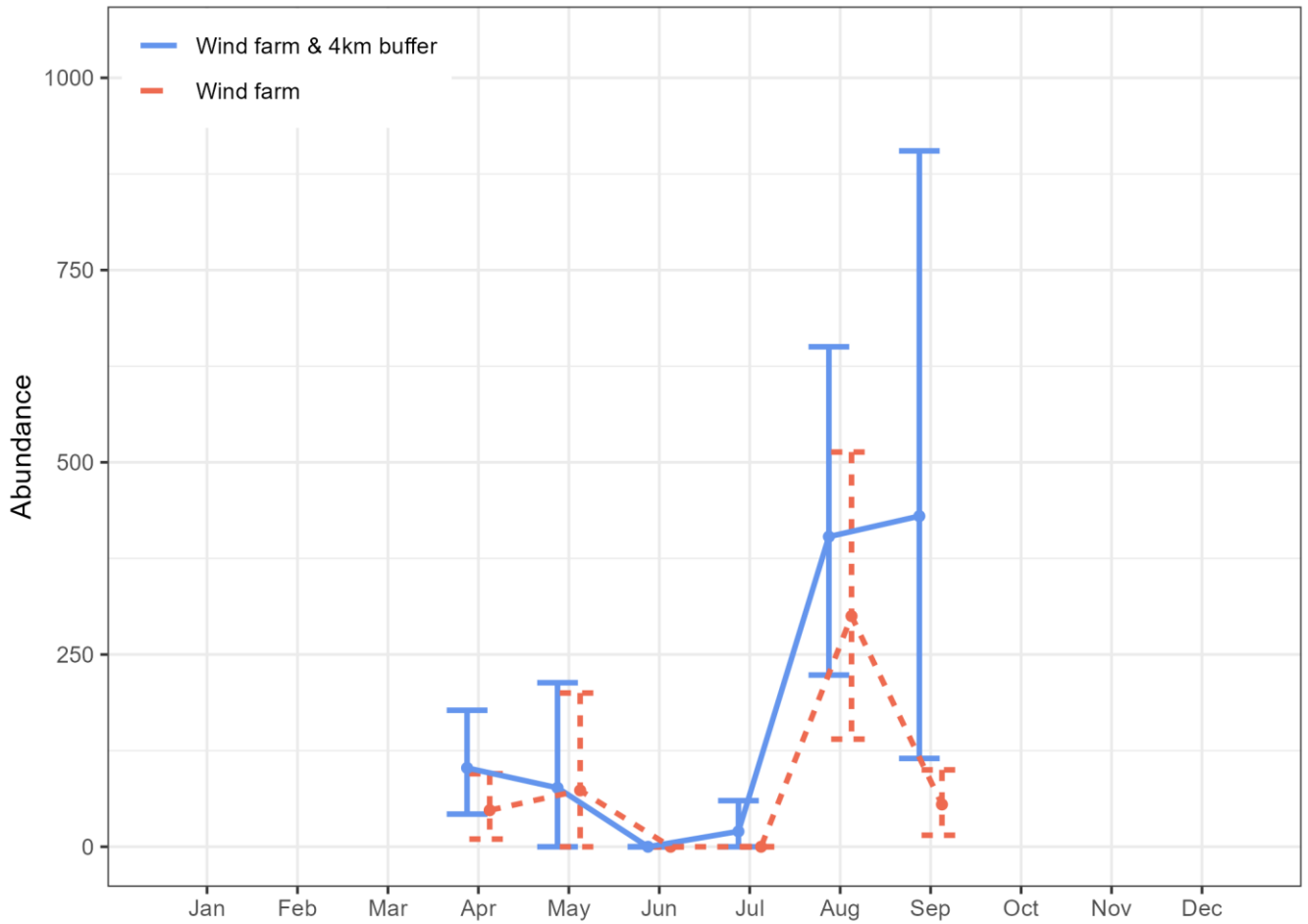


Figure 8. Common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

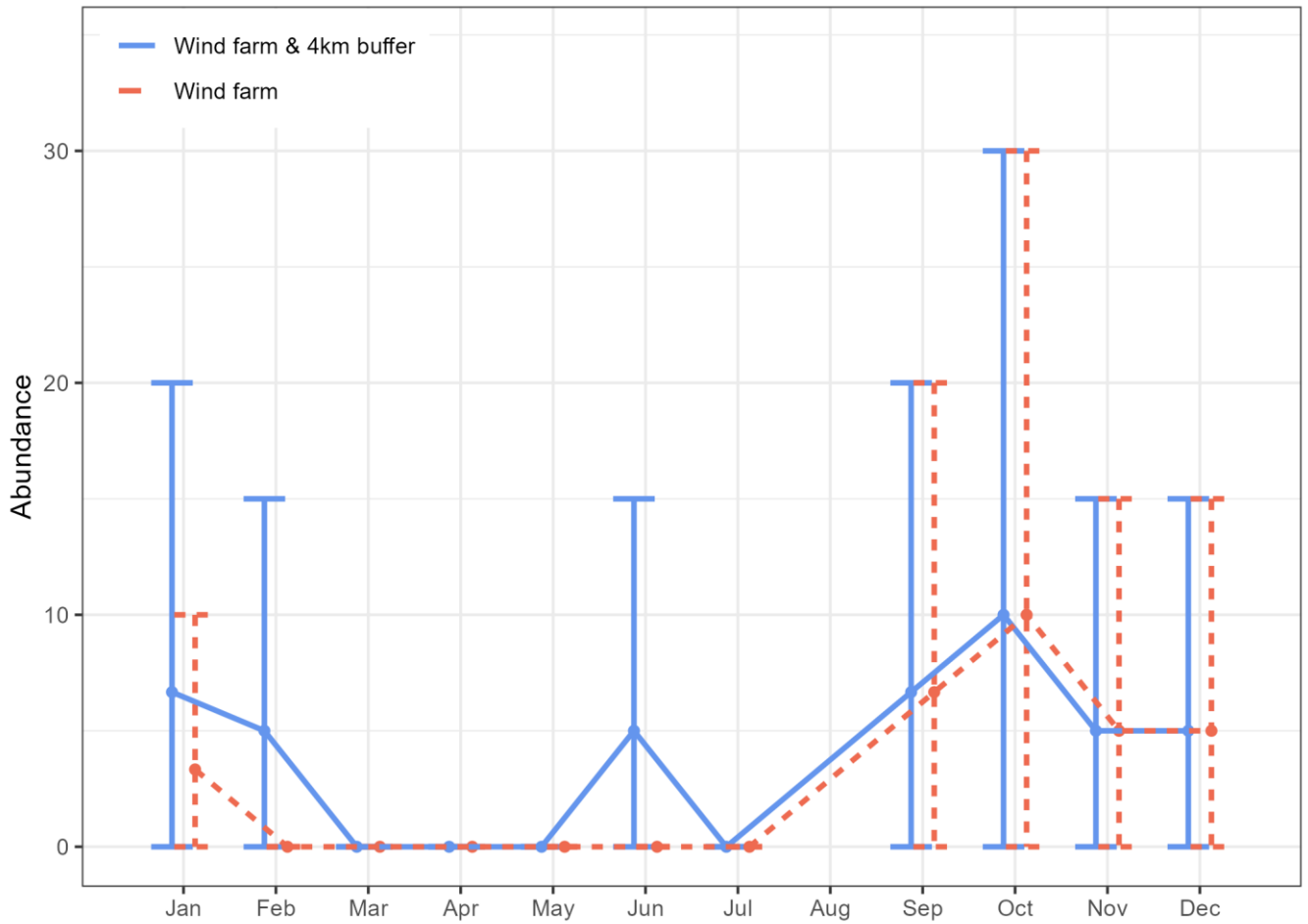


Figure 9. Cormorant abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

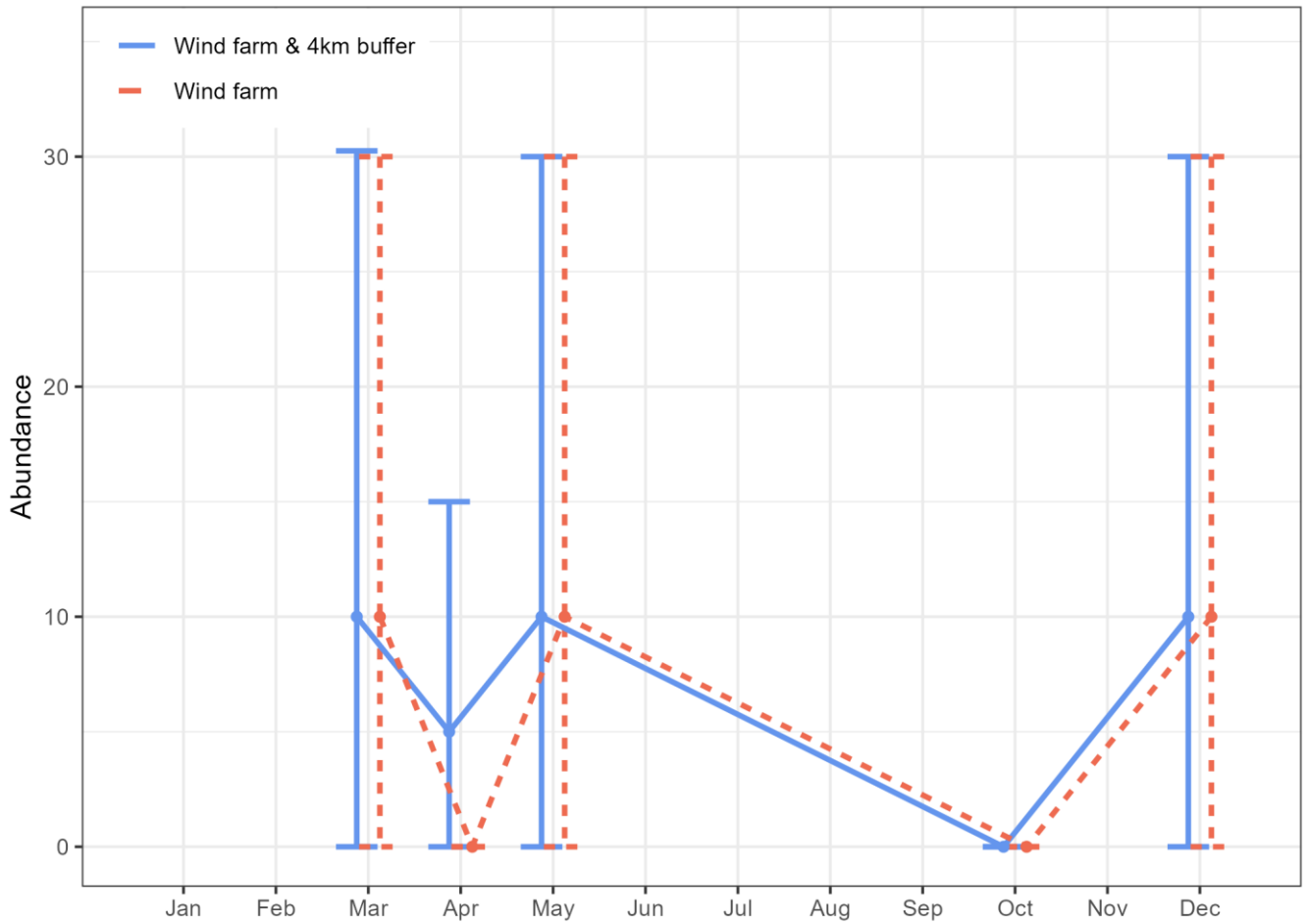


Figure 10. Cormorant / shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

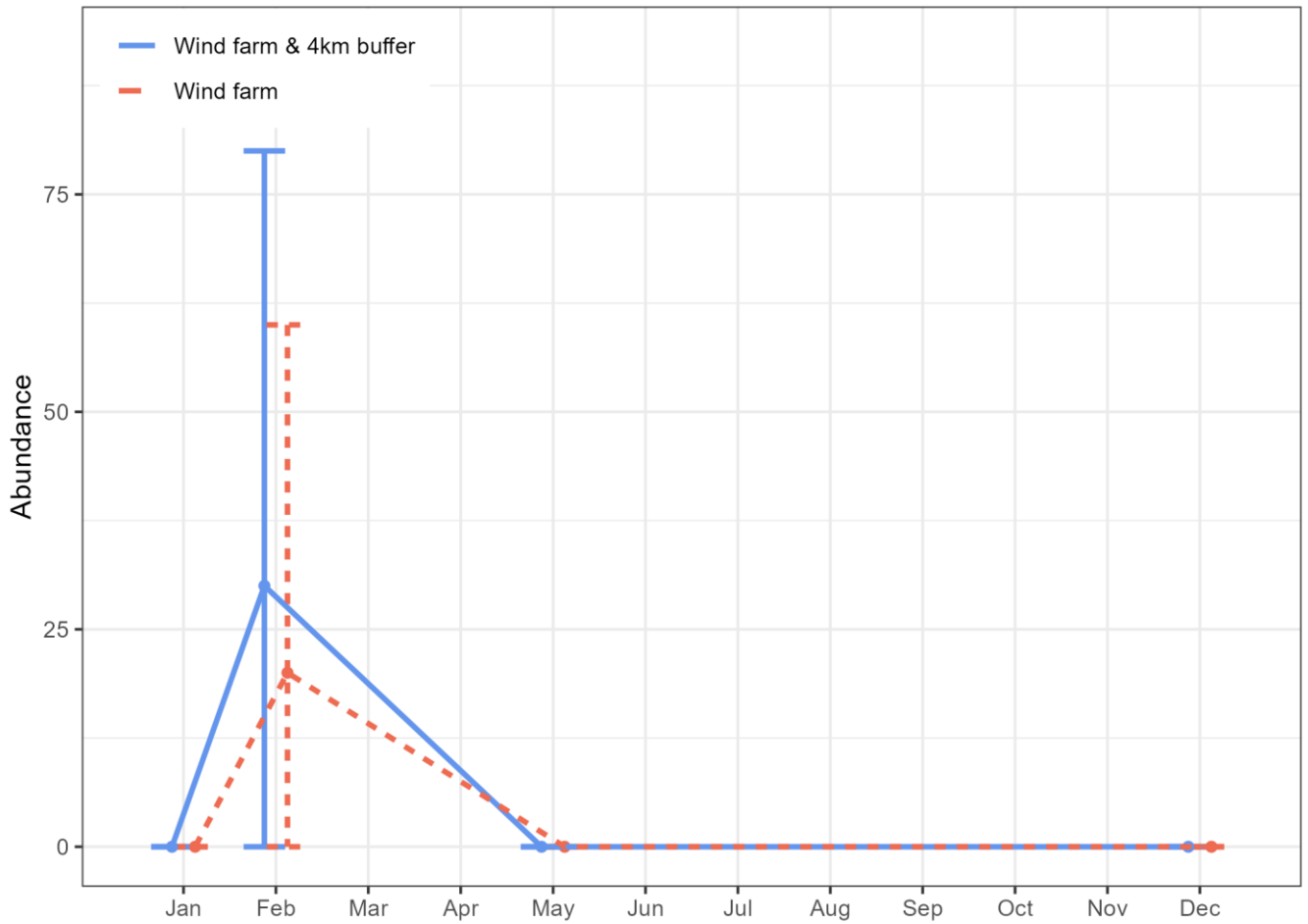


Figure 11. Diver species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

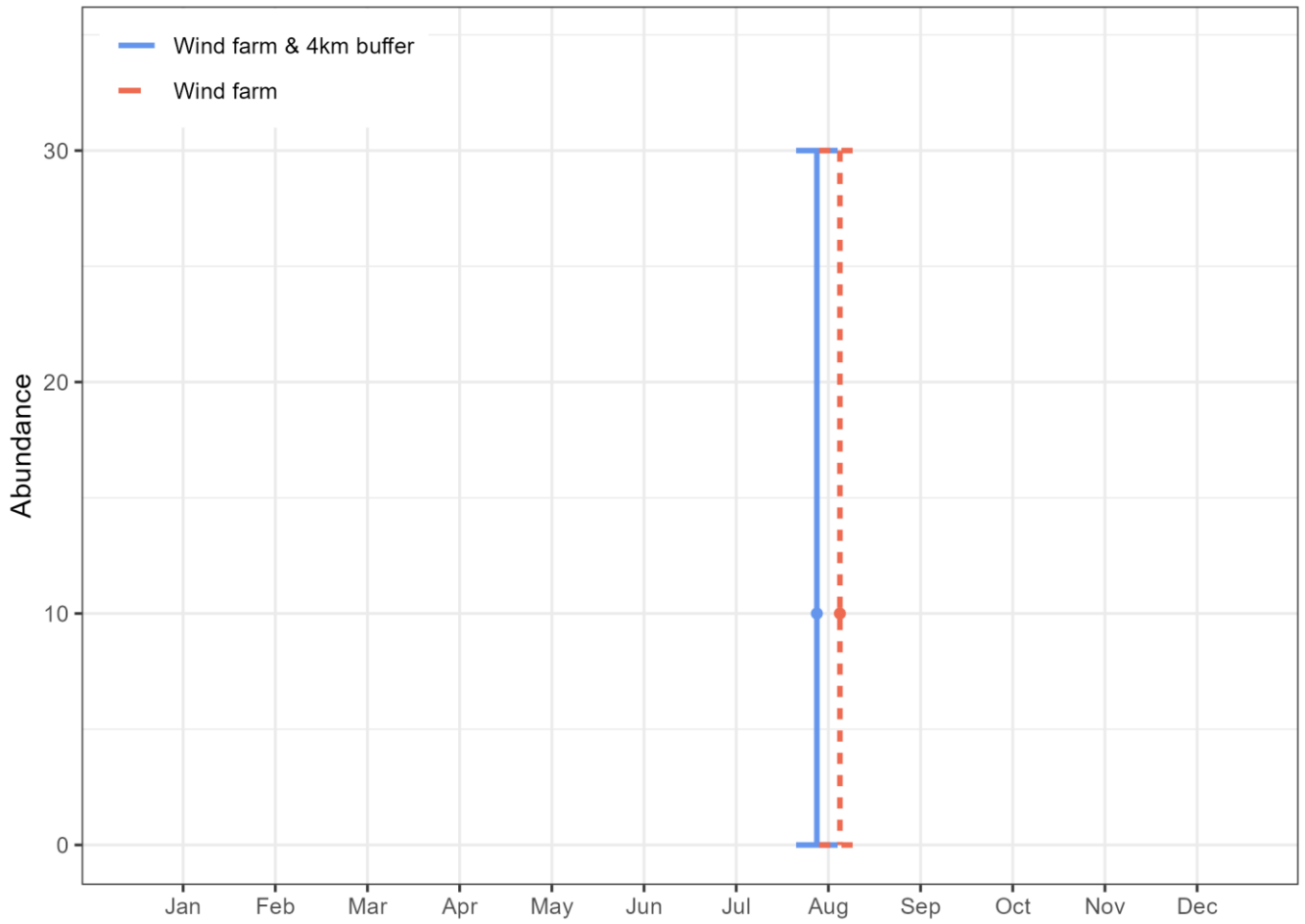


Figure 12. European storm petrel abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

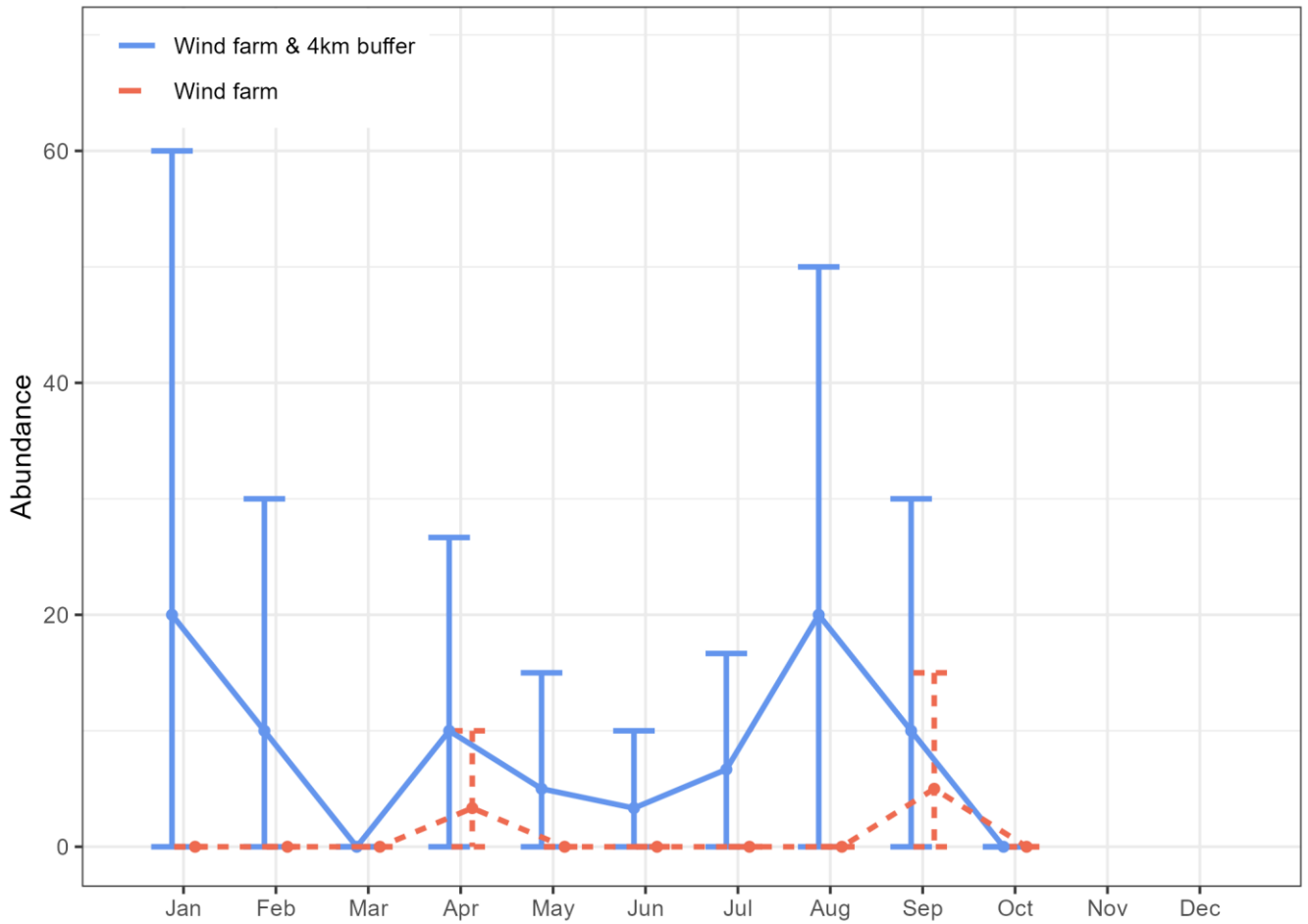


Figure 13. Fulmar abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

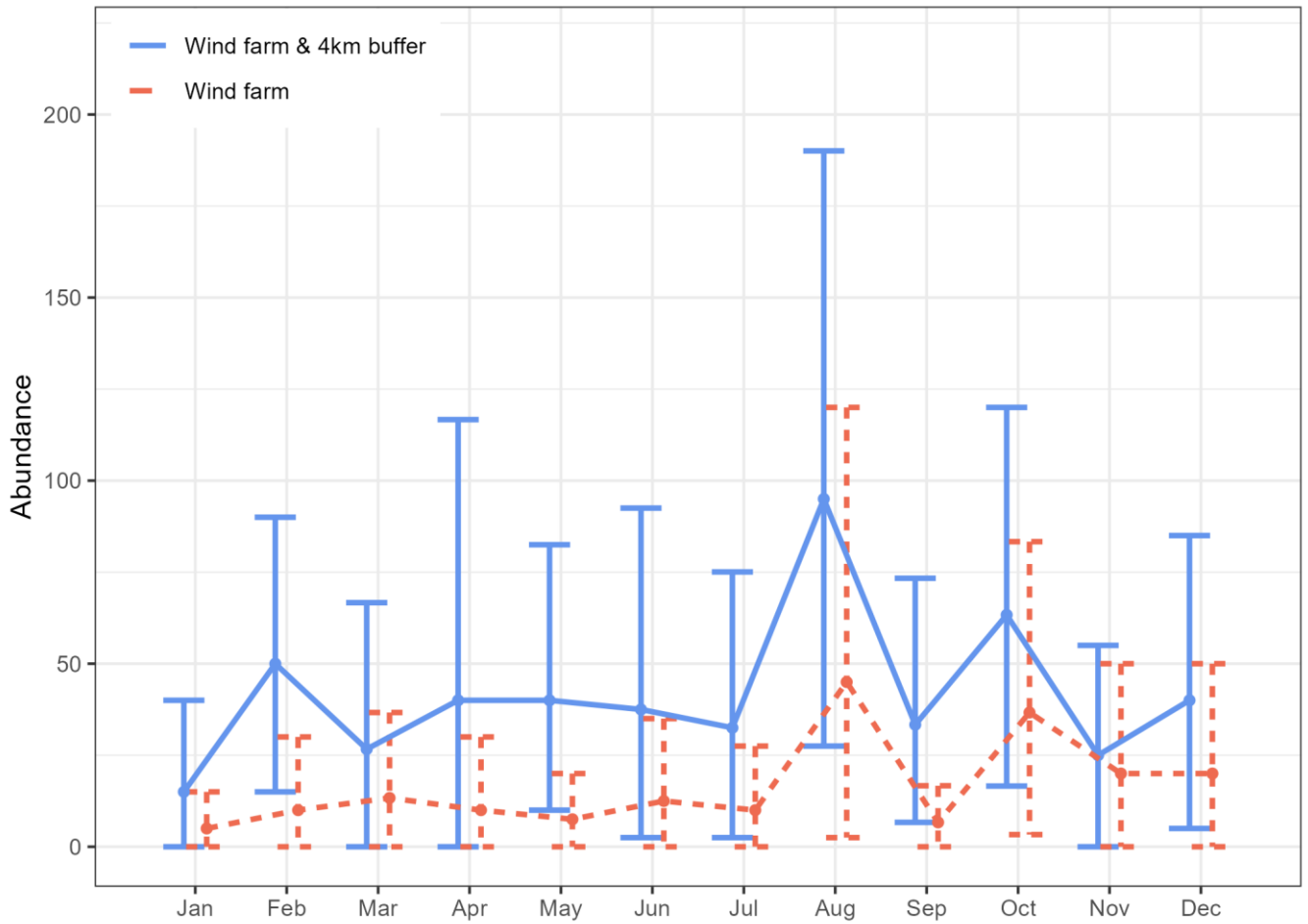


Figure 14. Gannet abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

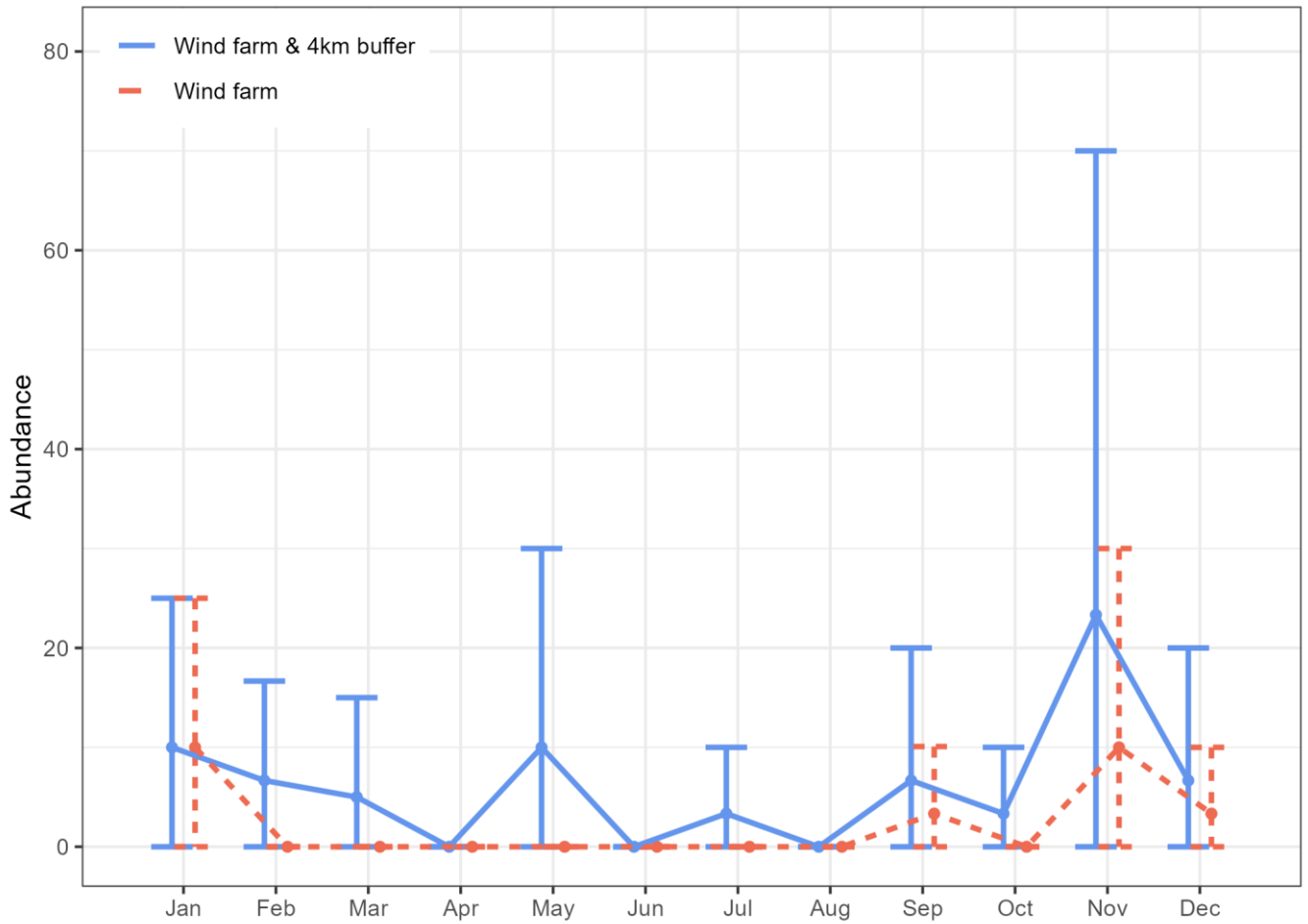


Figure 15. Great black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

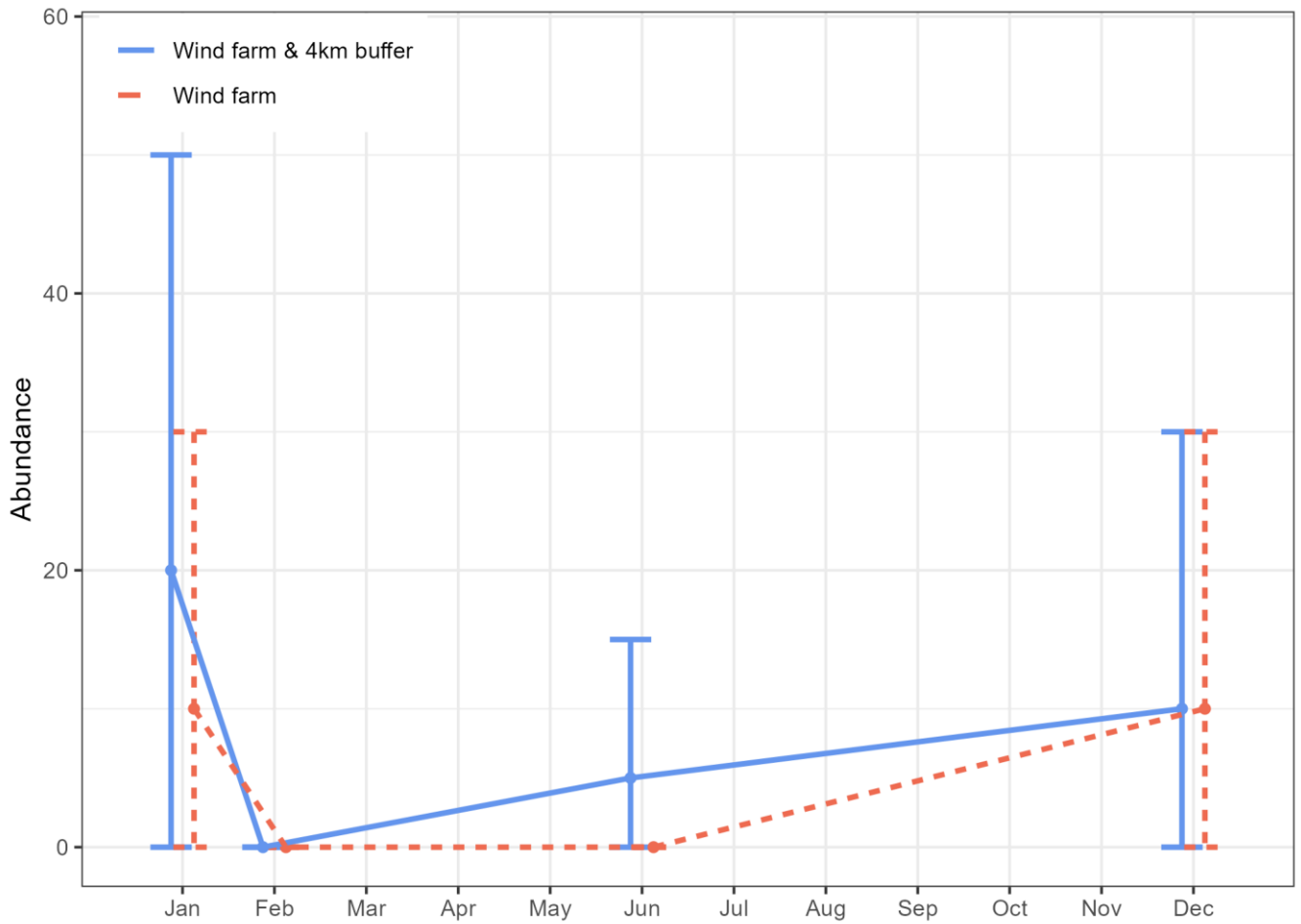


Figure 16. Great northern diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

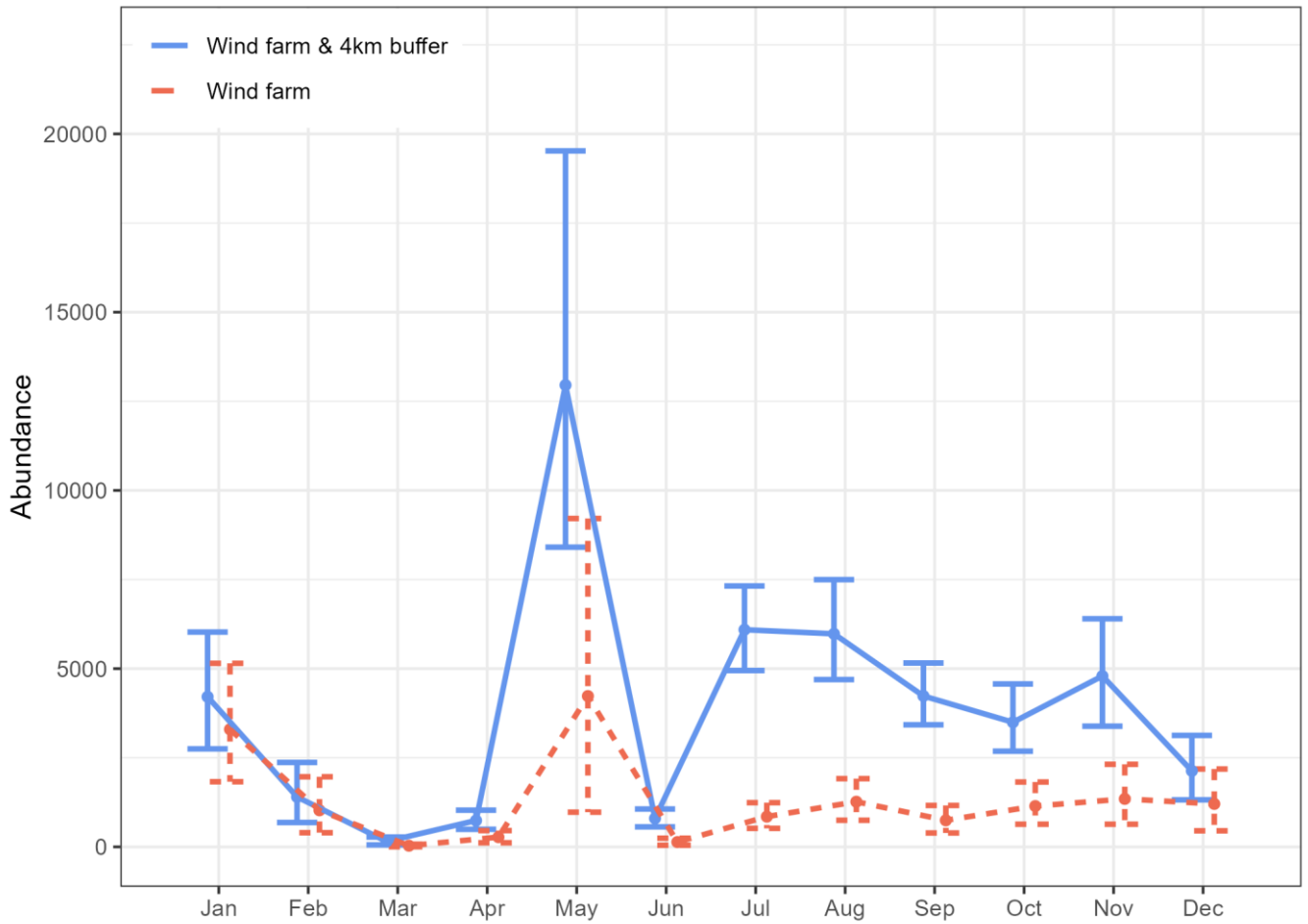


Figure 17. Guillemot abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

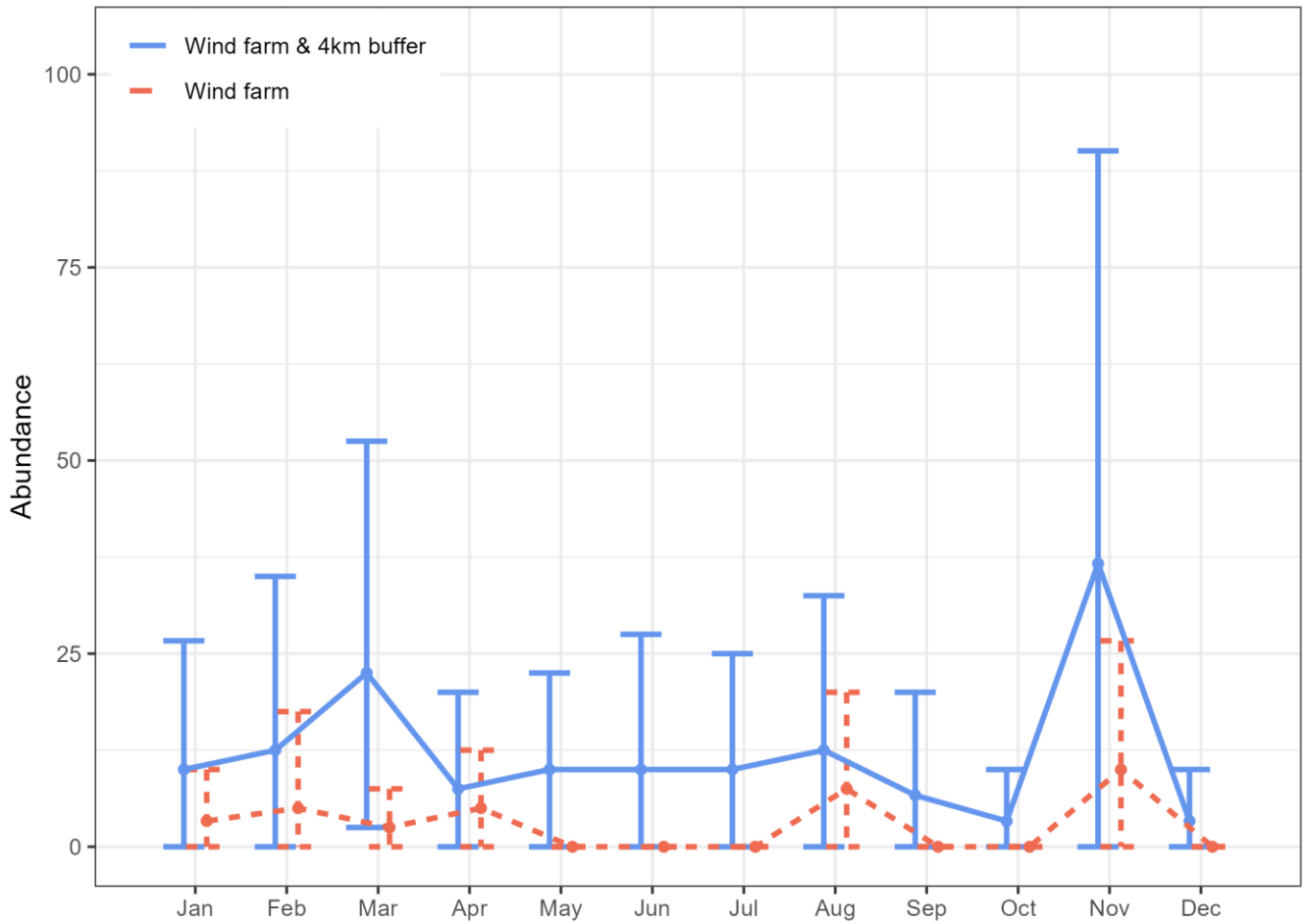


Figure 18. Herring gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

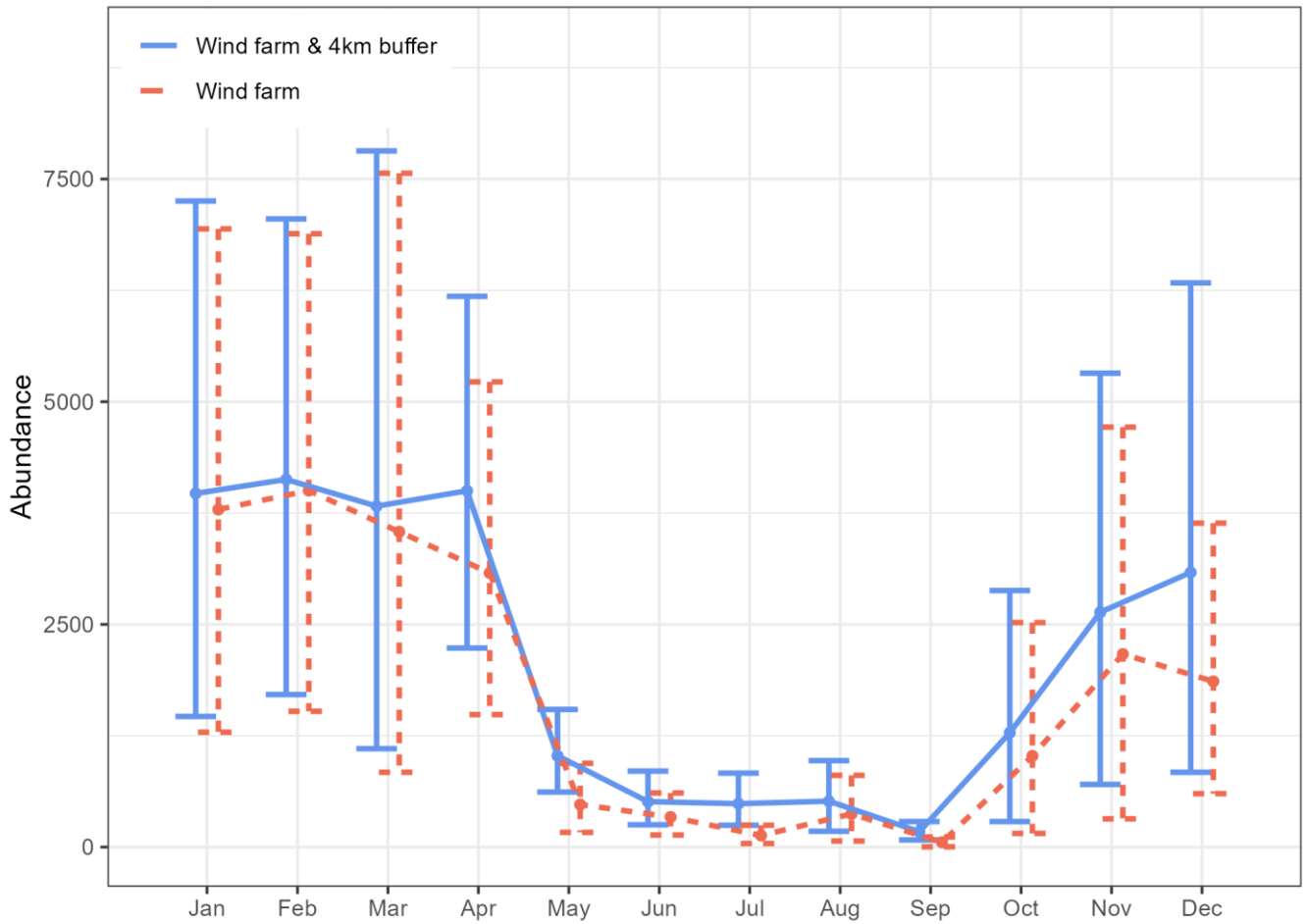


Figure 19. Kittiwake abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

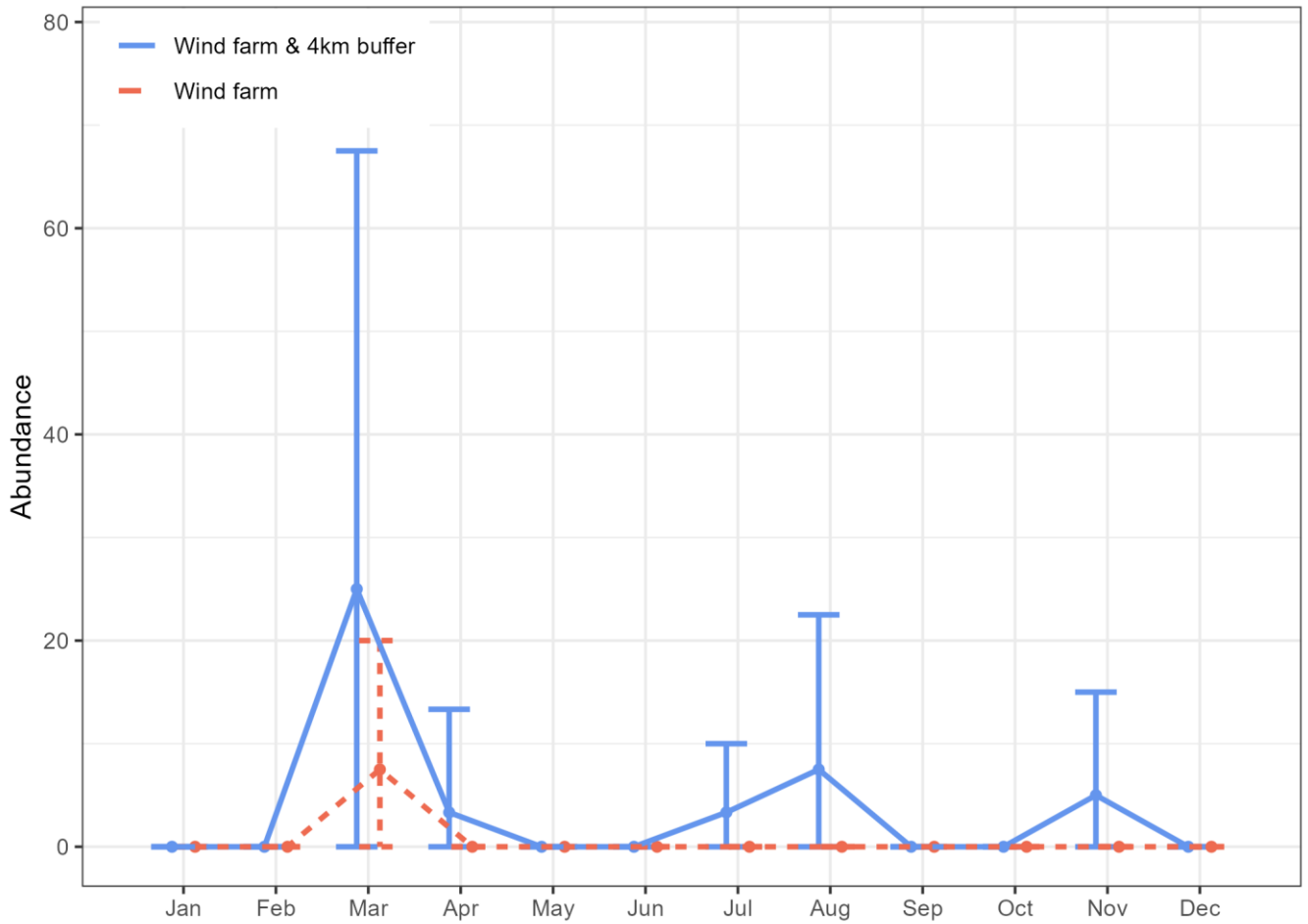


Figure 20. Lesser black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

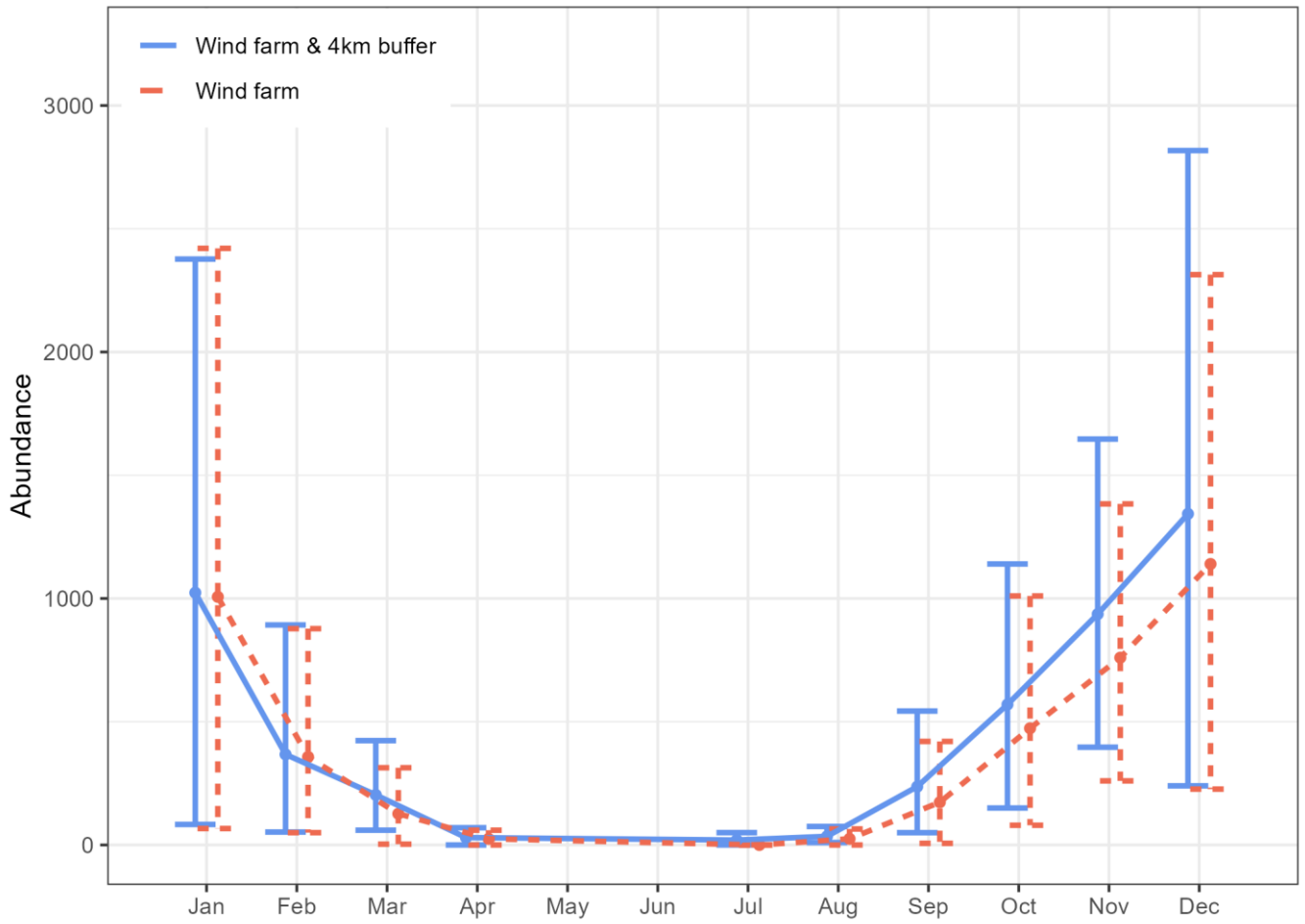


Figure 21. Little gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

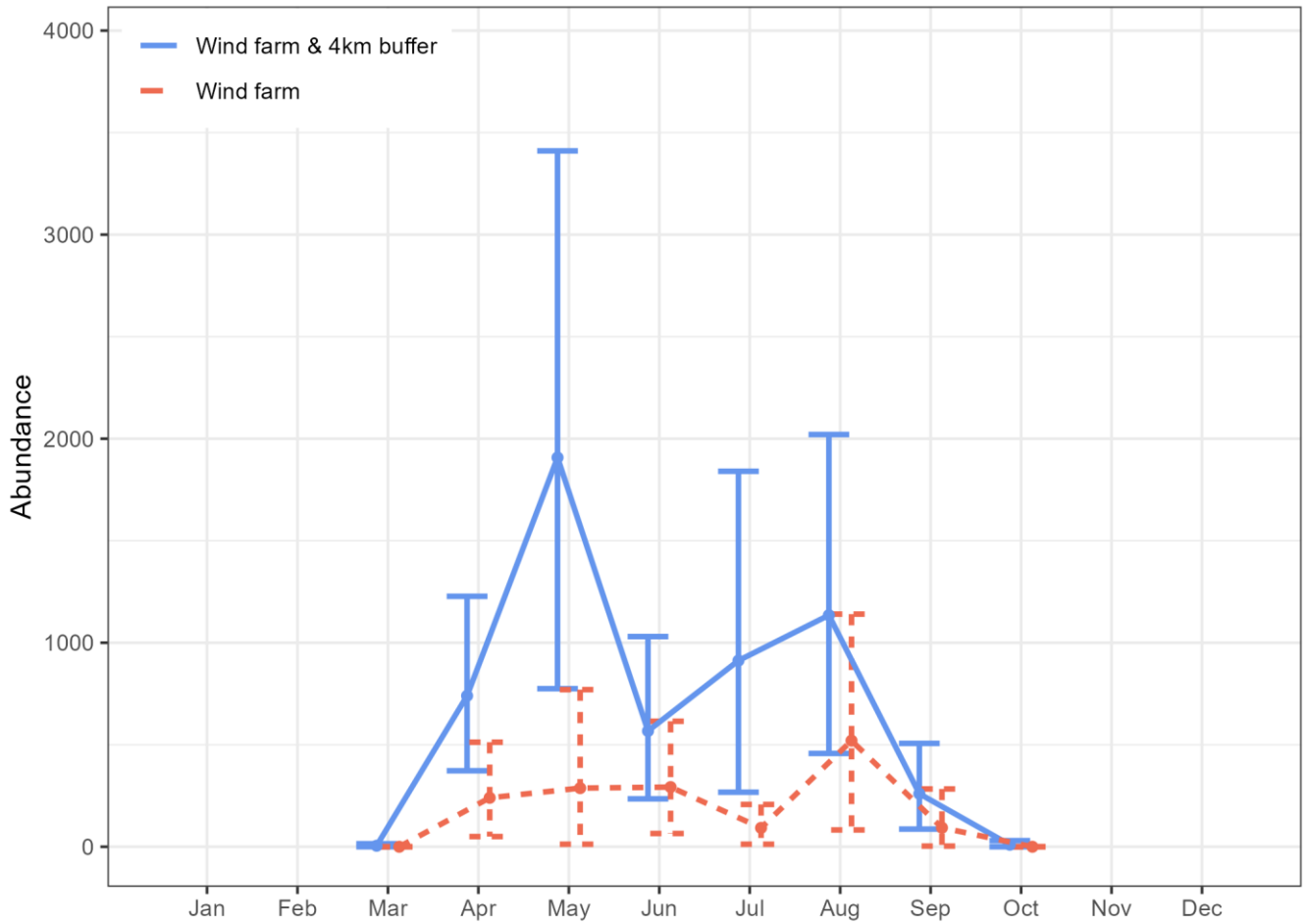


Figure 22. Manx shearwater abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

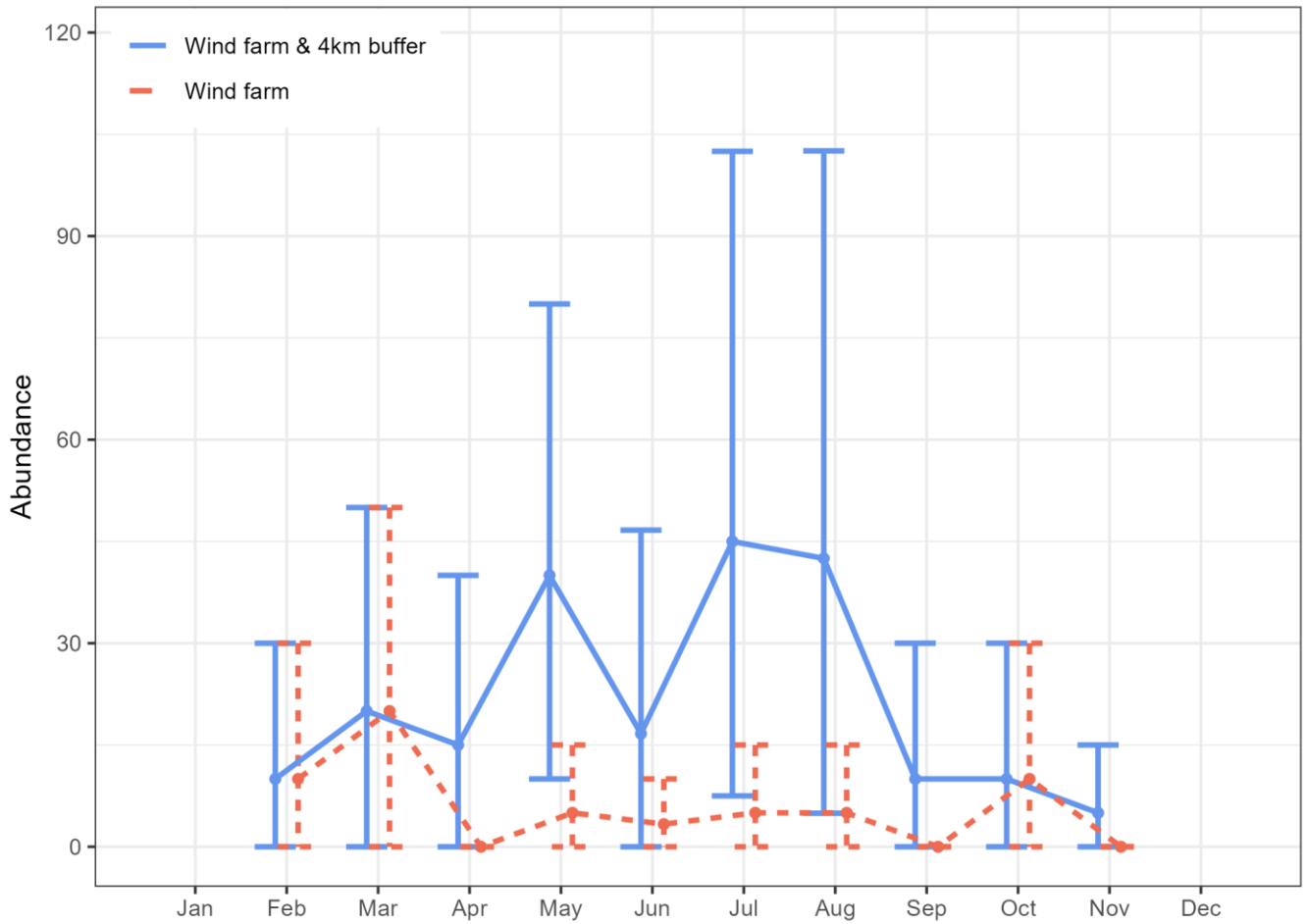


Figure 23. Puffin abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

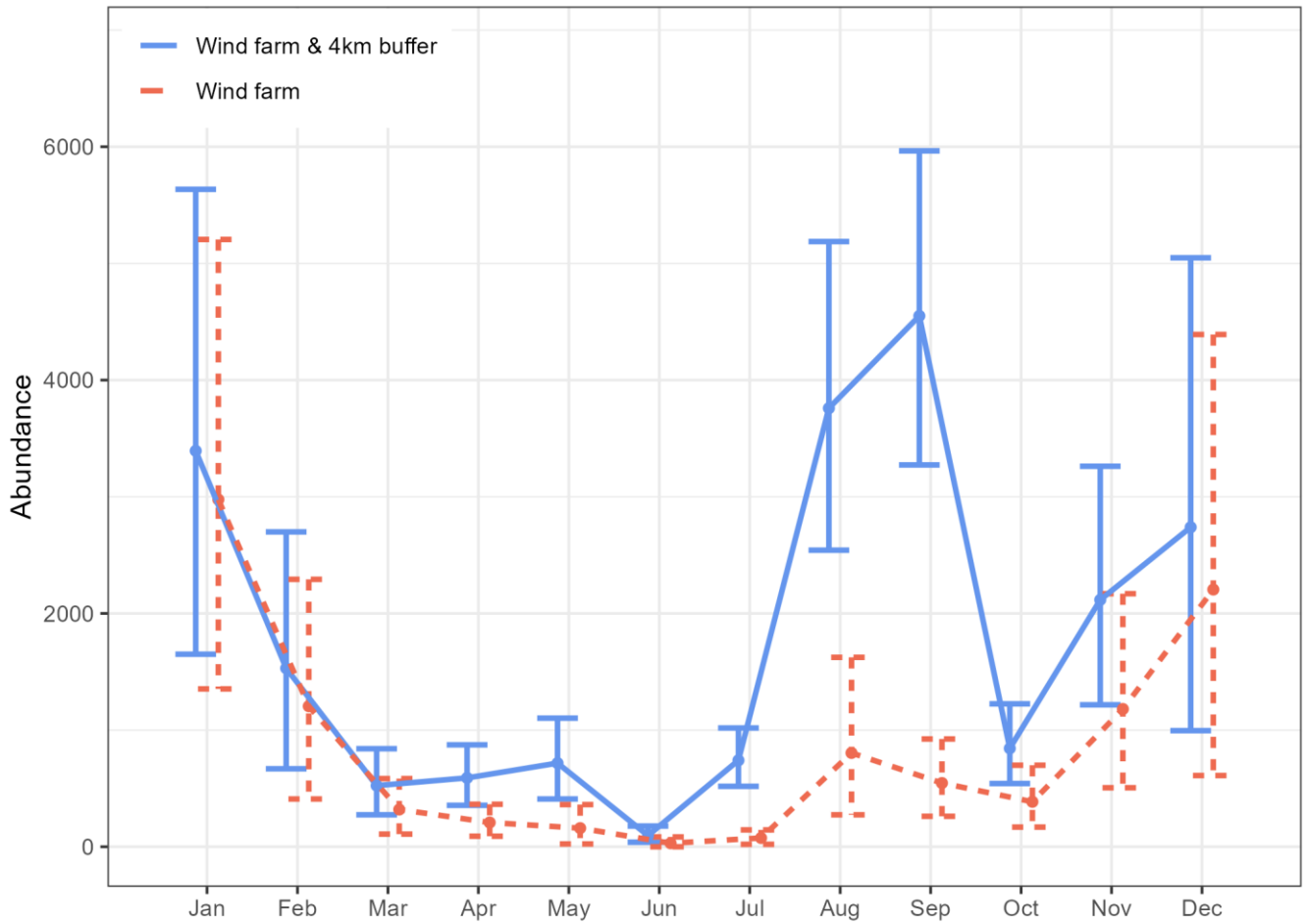


Figure 24. Razorbill abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

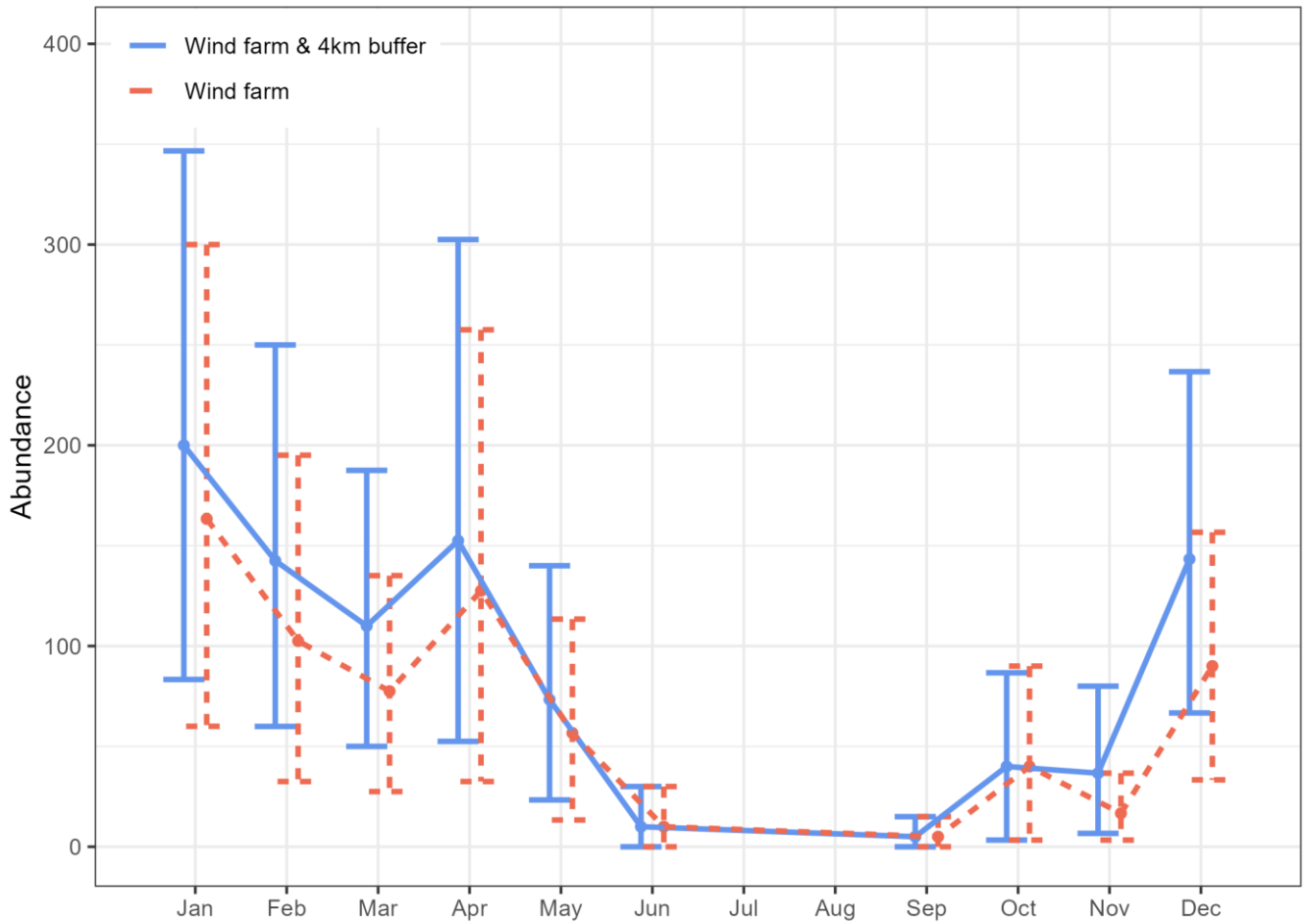


Figure 25. Red-throated diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

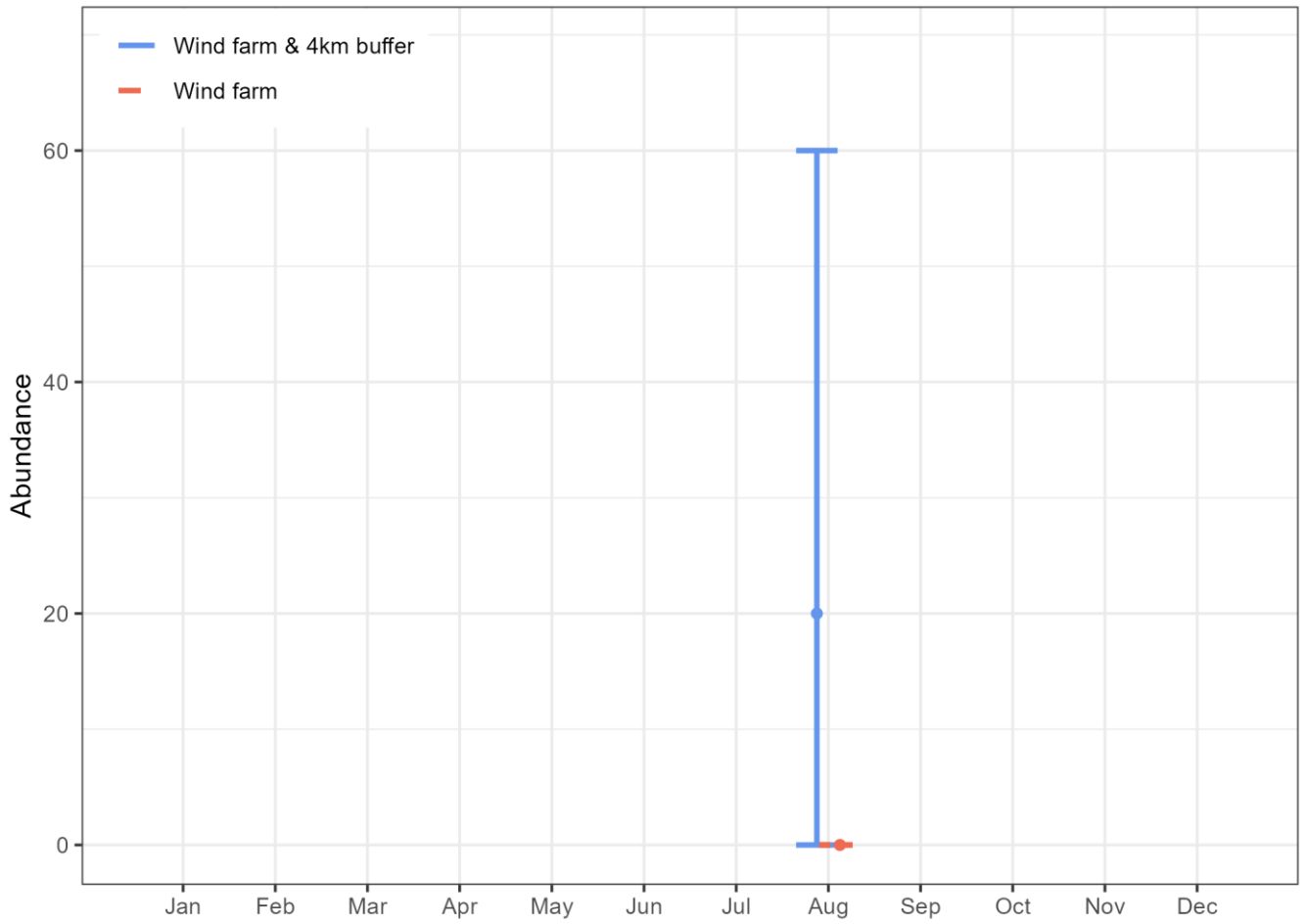


Figure 26. Roseate Tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

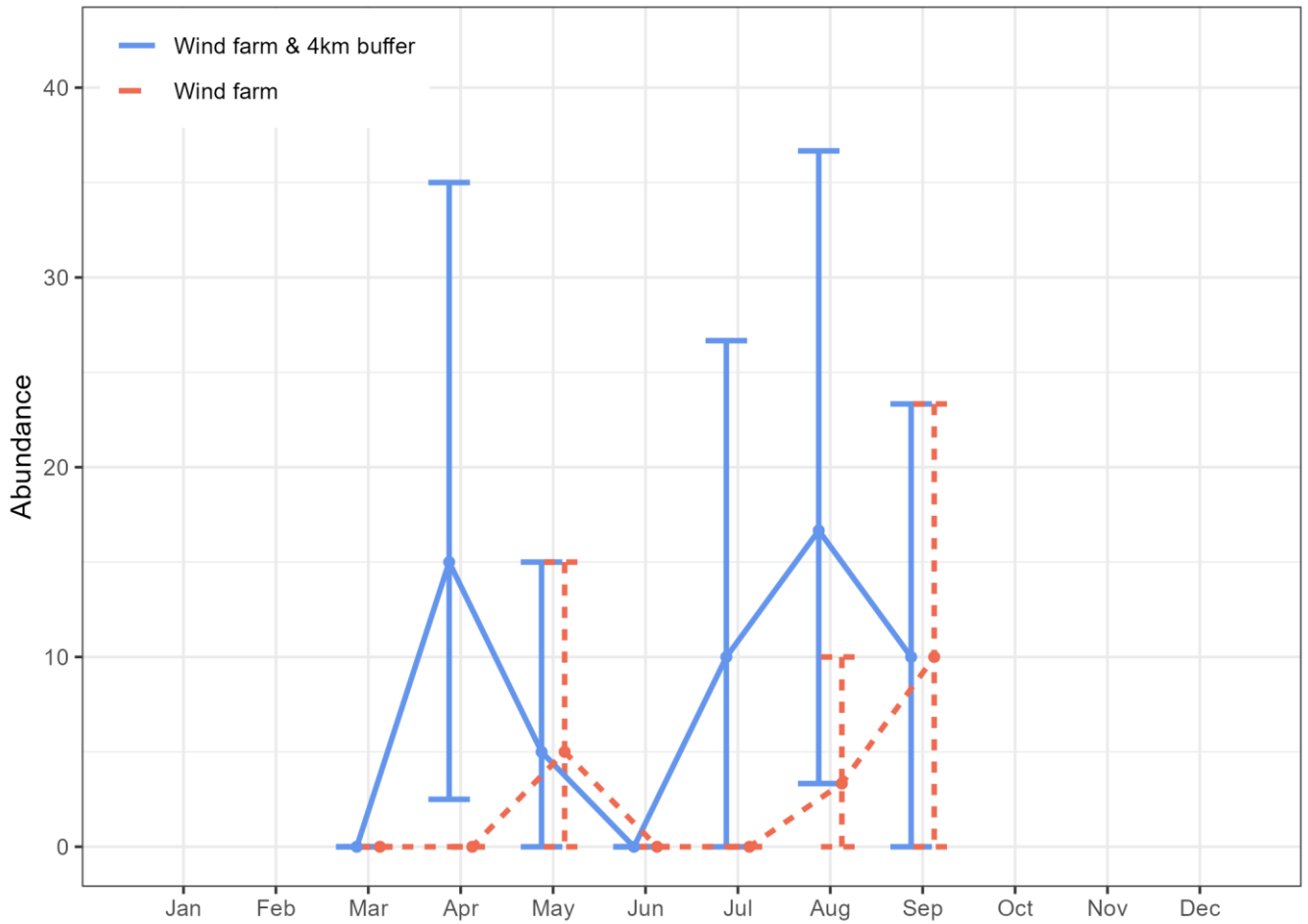


Figure 27. Sandwich tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

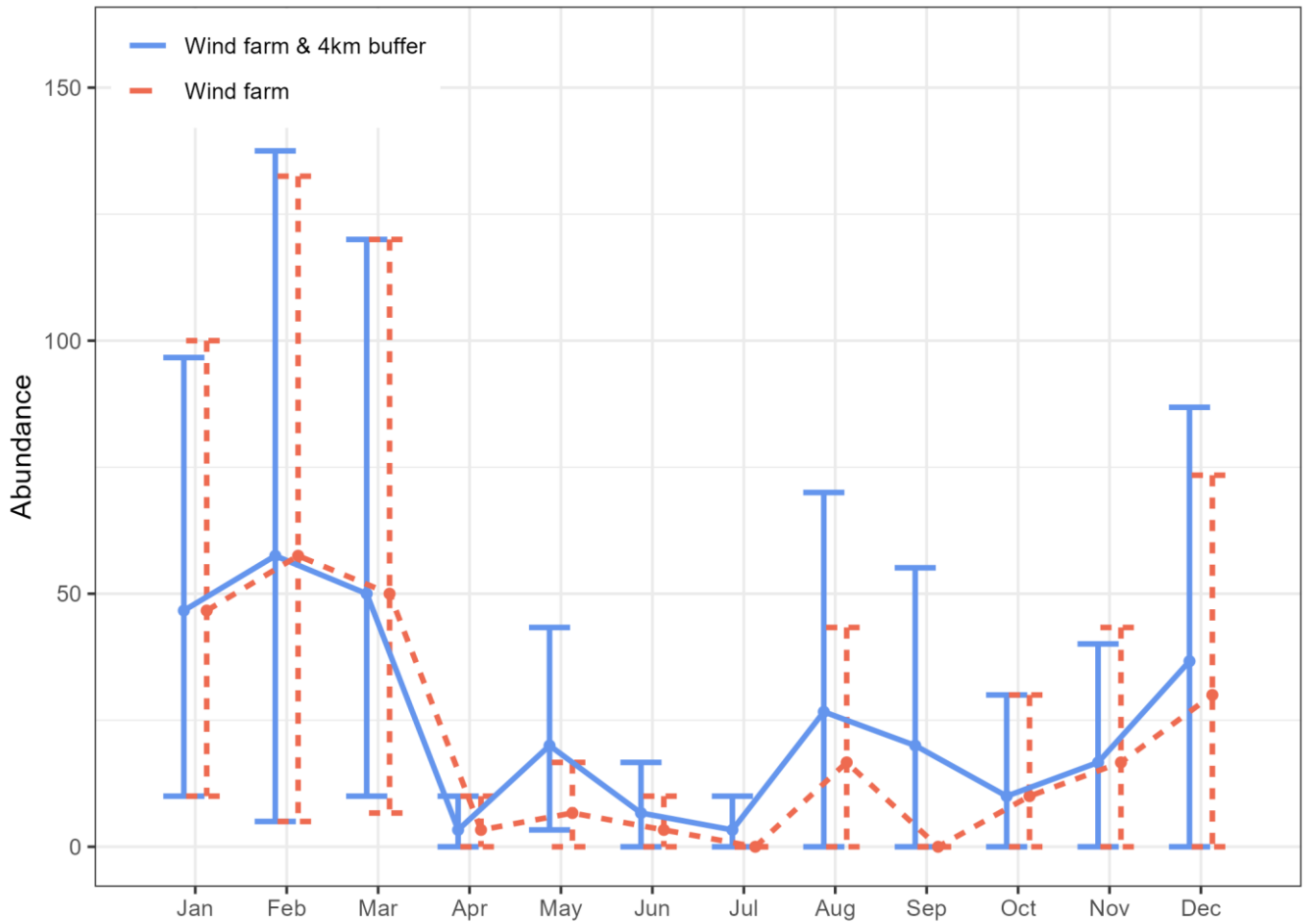


Figure 28. Shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.