



Arklow Bank Wind Park 2

Environmental Impact Assessment Report

Volume III, Appendix 12.6: Offshore Ornithology Technical Report -
Seabird Species Abundance Plots



MacArthur
Green

Arklow Bank Wind Park 2

**Technical Appendix 12.06
Offshore Ornithology**

**Seabird Species Abundance
Plots**

Date: 16 May 2024

Tel: 0141 342 5404

Web: www.macarthurgreen.com

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

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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 April 2020 inclusive. The tabulated density and abundance data for each species recorded are presented in Volume III, Appendix 12.02: Monthly Seabird Density and Volume III, Appendix 12.03: Monthly Seabird Abundance respectively. It should be noted that the y-axes are scaled for each species and vary accordingly.

1.2 Seabird species abundance plots

1.2.1 Seabird species abundance plots are presented in Figure 12.6.1 to Figure 12.6.26.

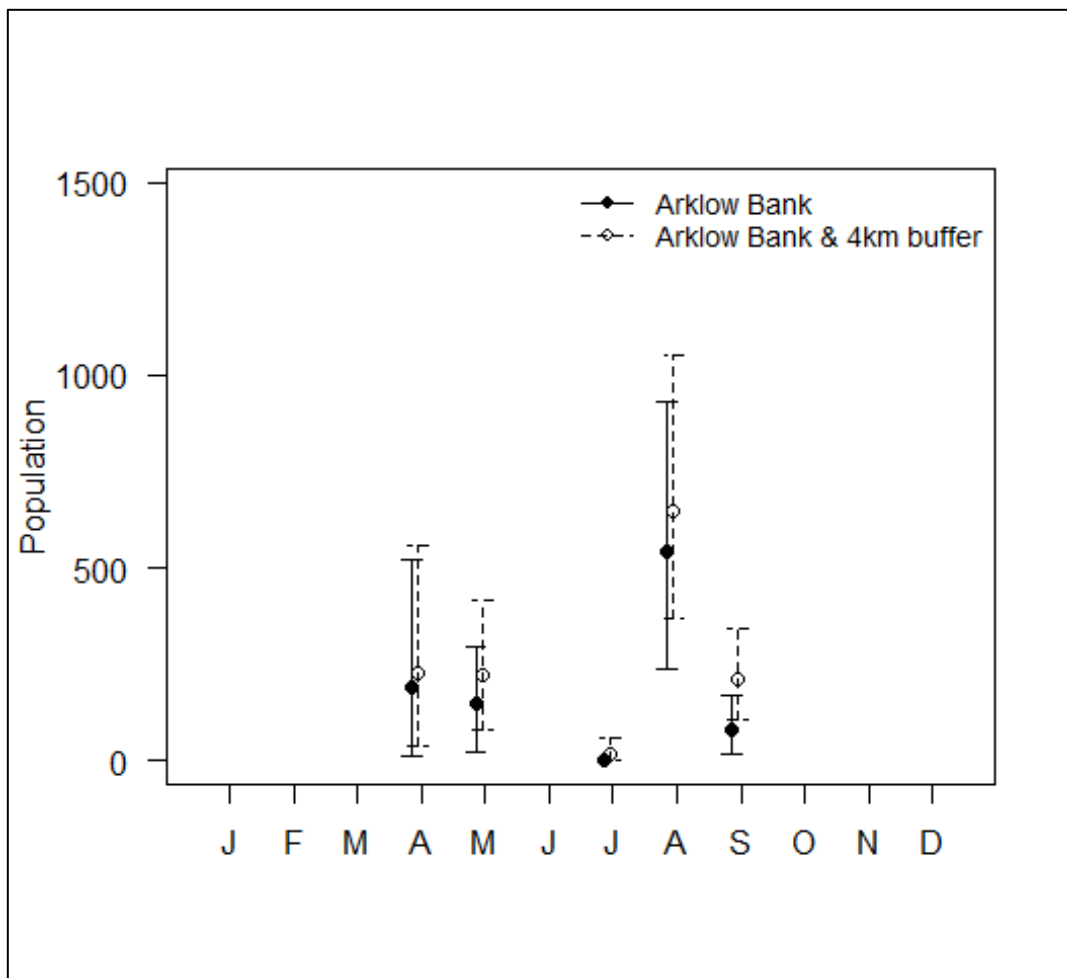


Figure 12.6.1: Arctic/common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

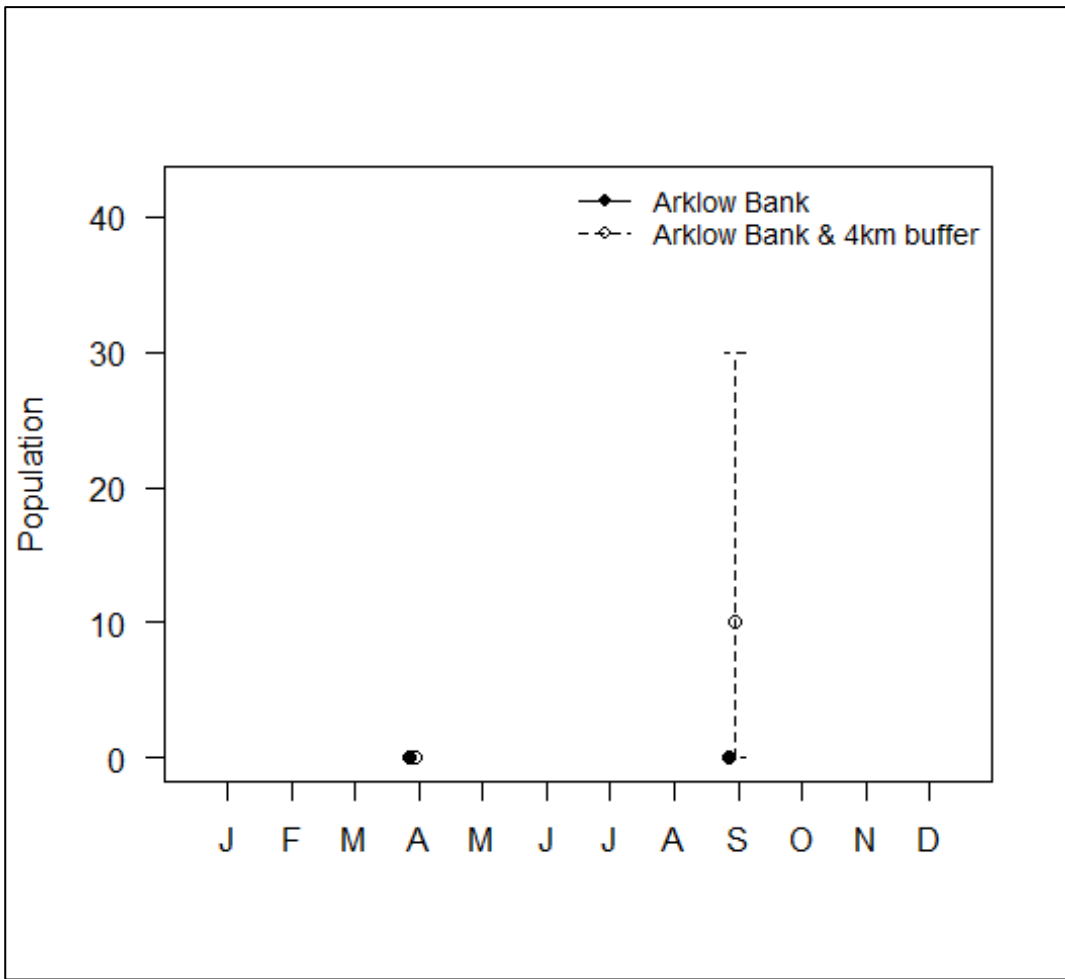


Figure 12.6.2: Arctic skua abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

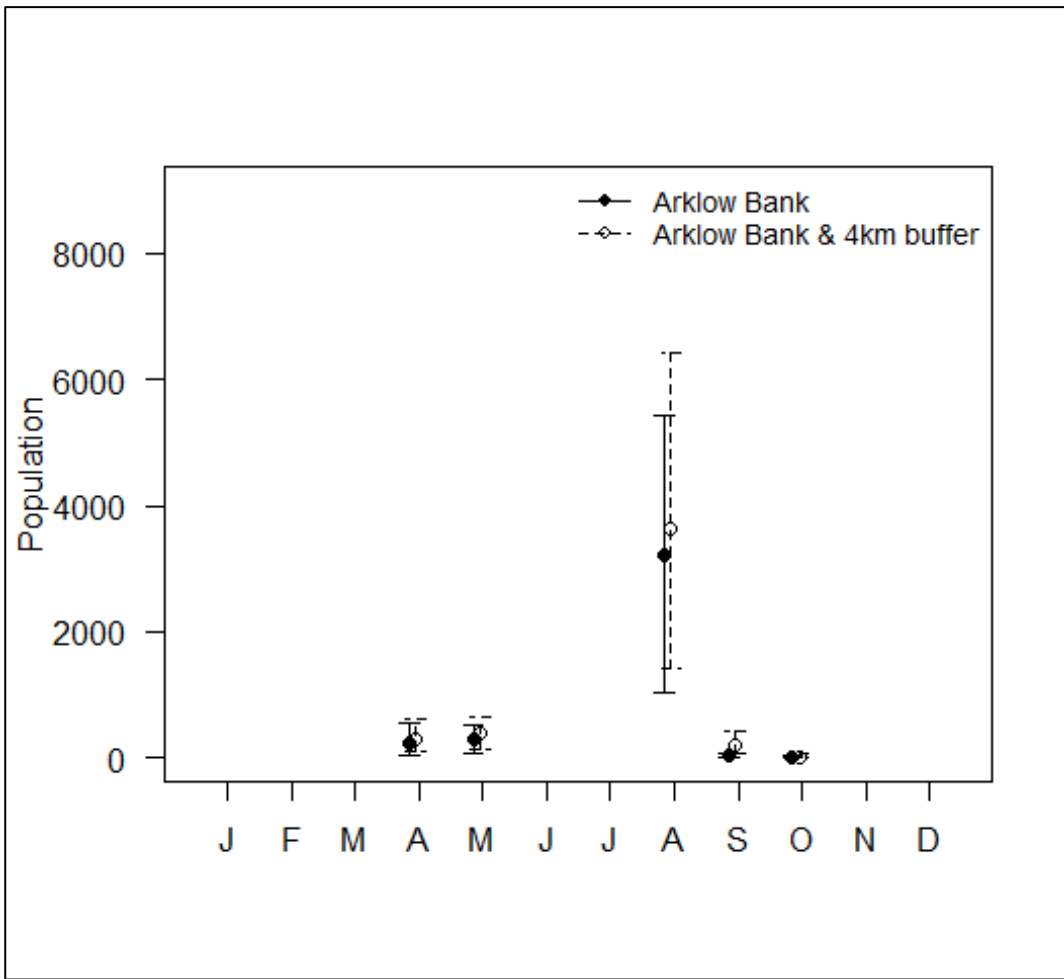


Figure 12.6.3: Arctic tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

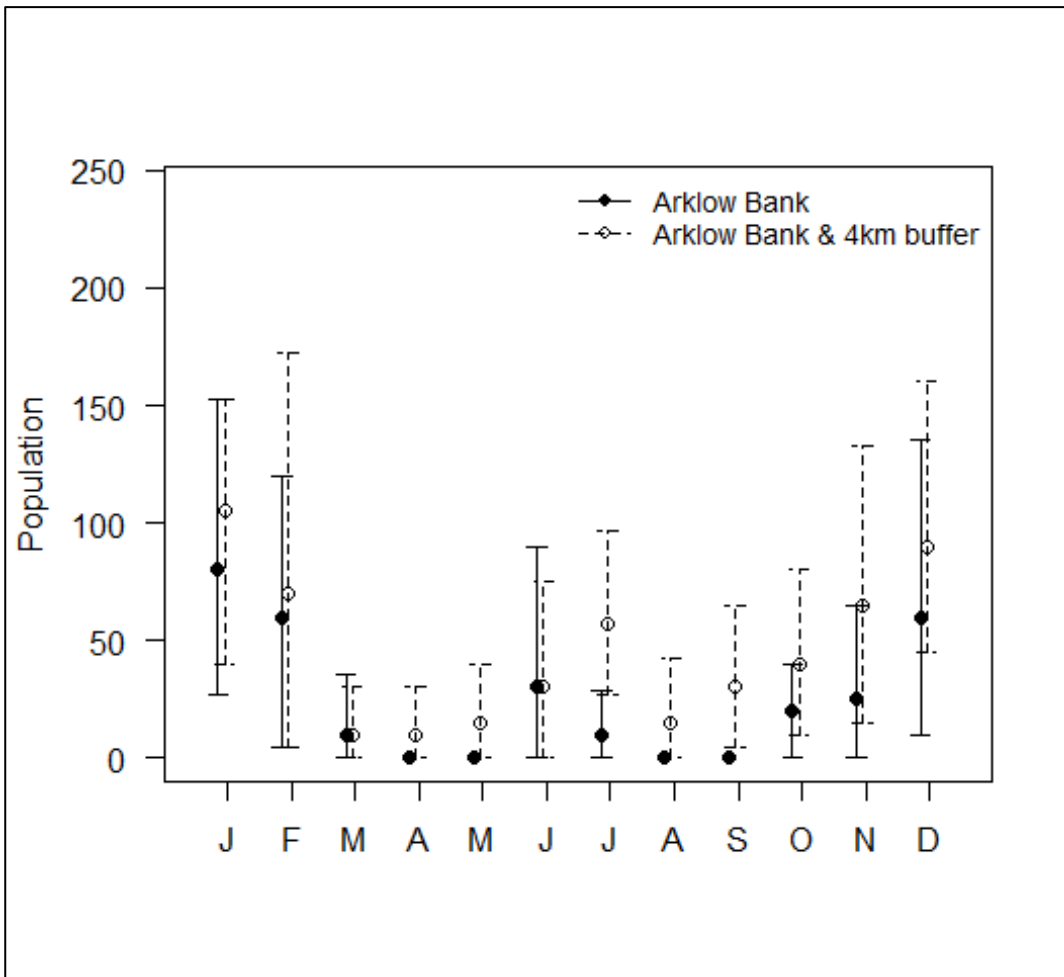


Figure 12.6.4: Auk species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

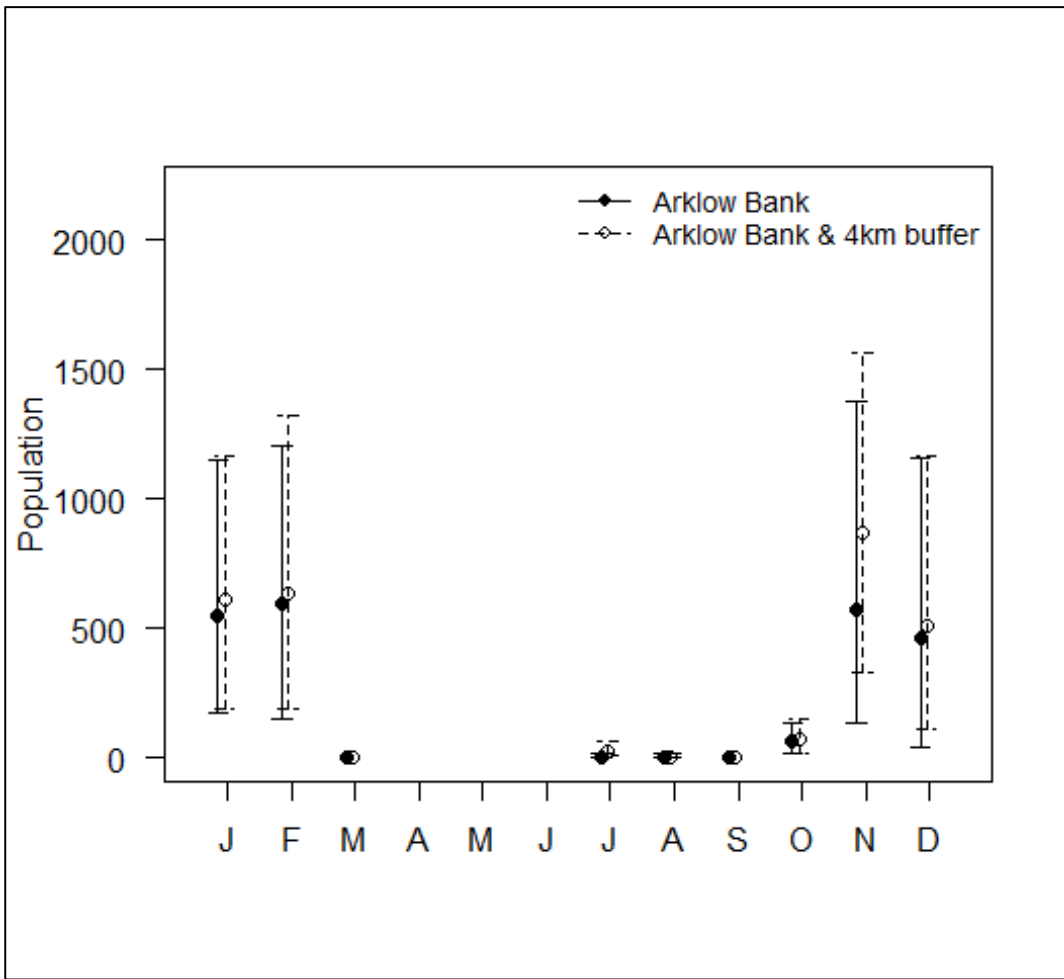


Figure 12.6.5: Black-headed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

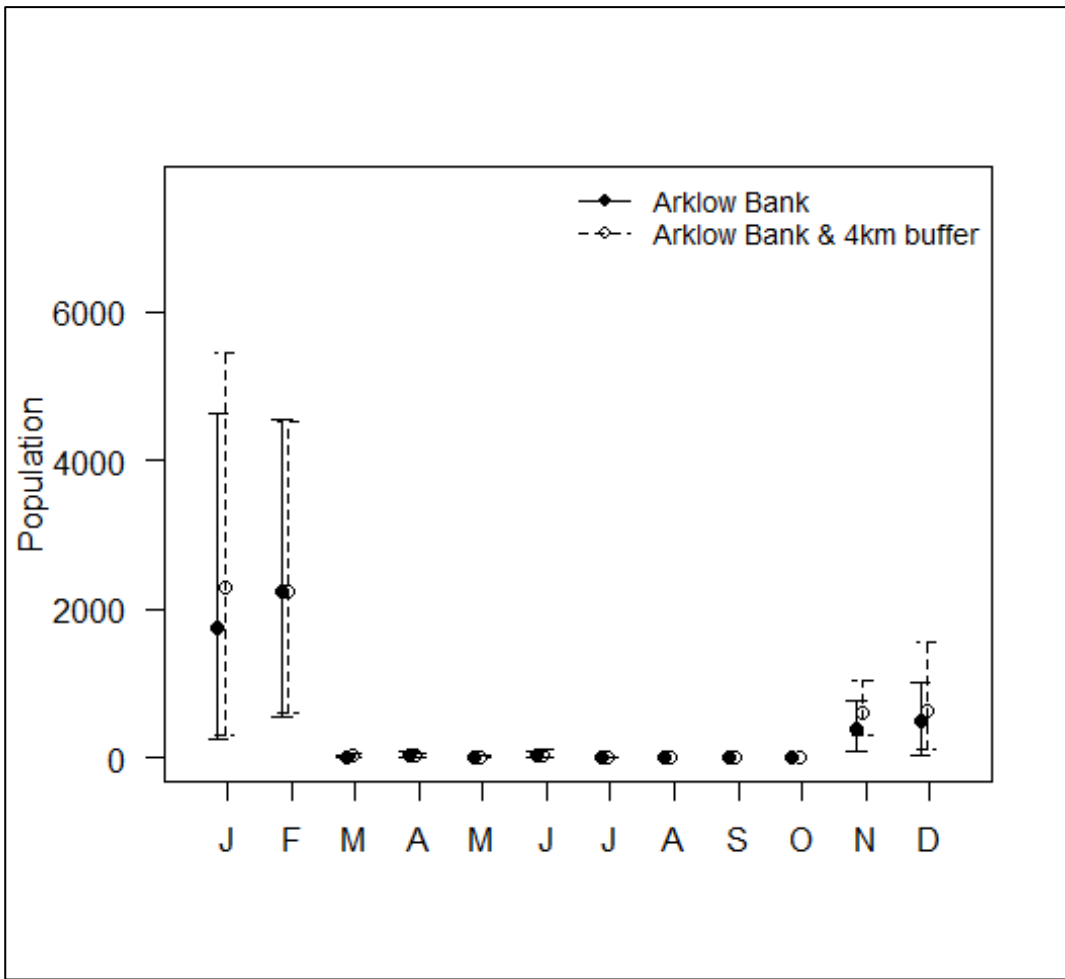


Figure 12.6.6: Common gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

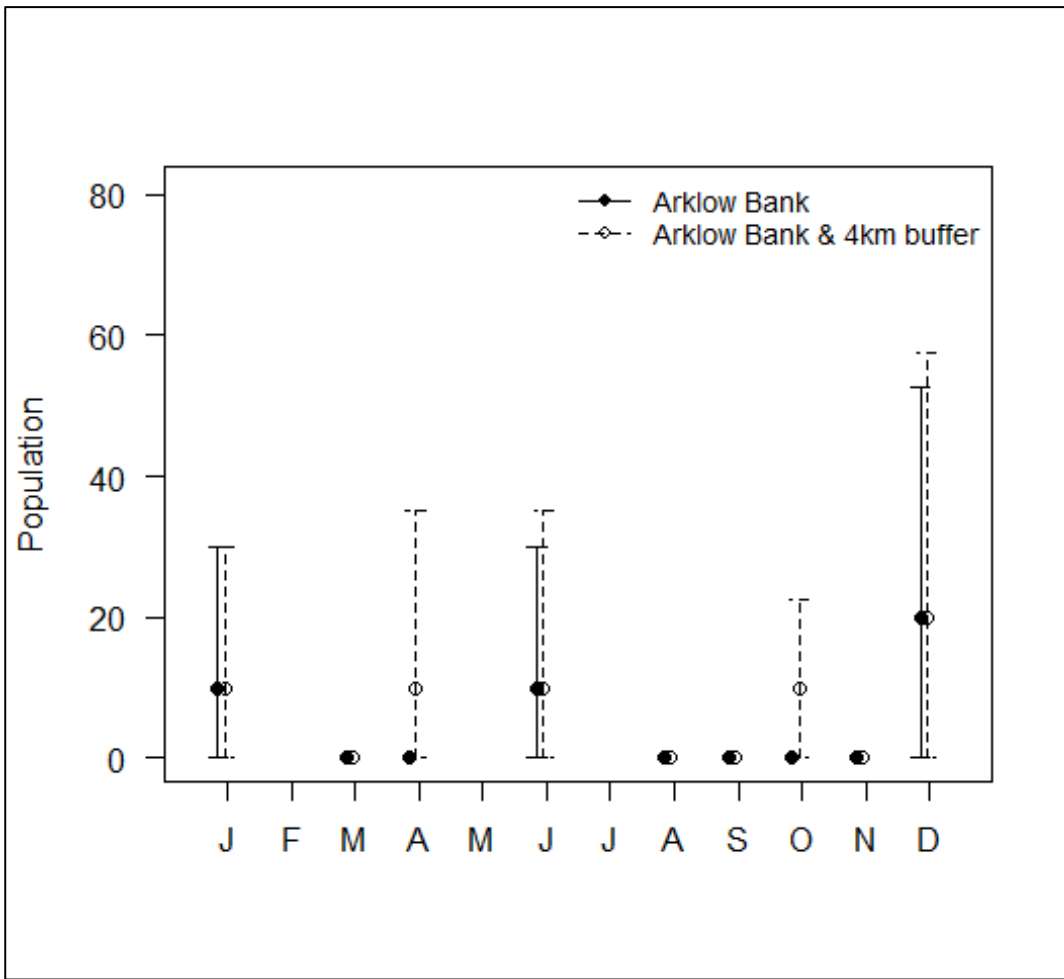


Figure 12.6.7: Common scoter abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

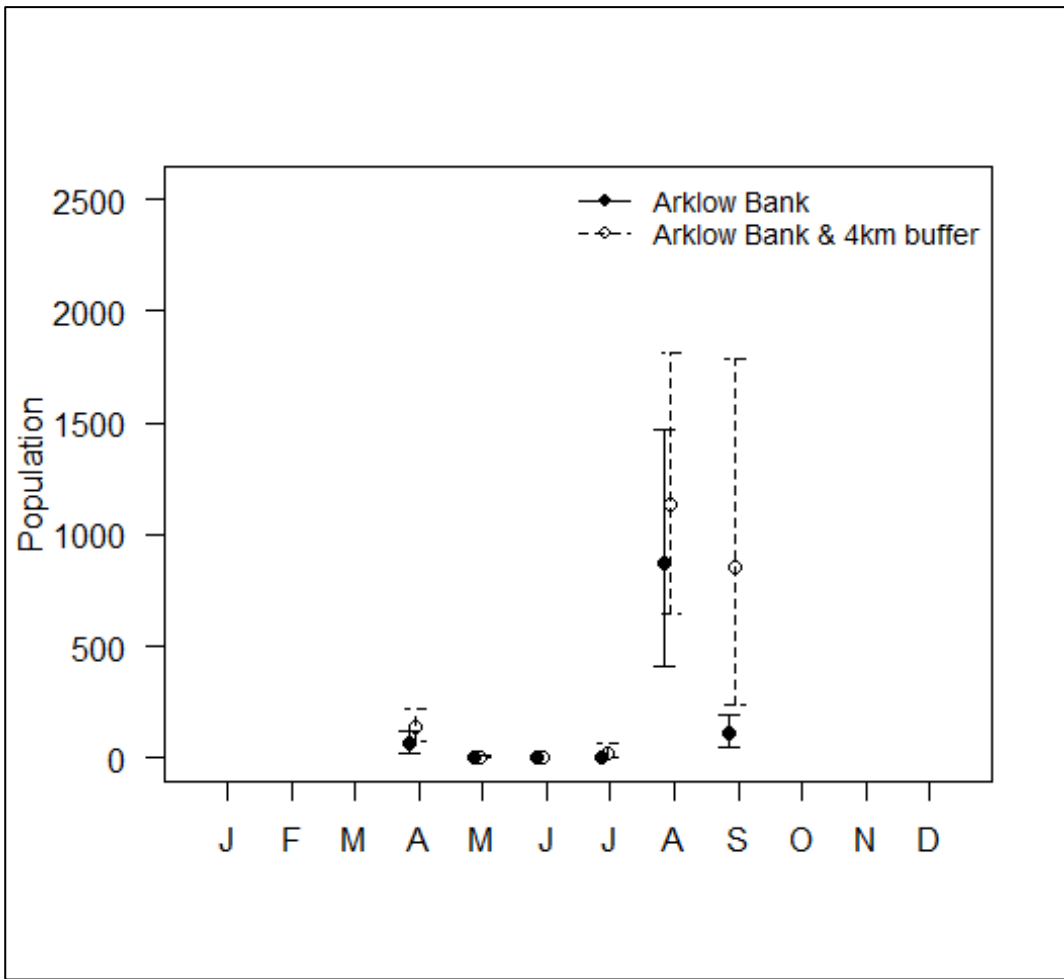


Figure 12.6.8: Common tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

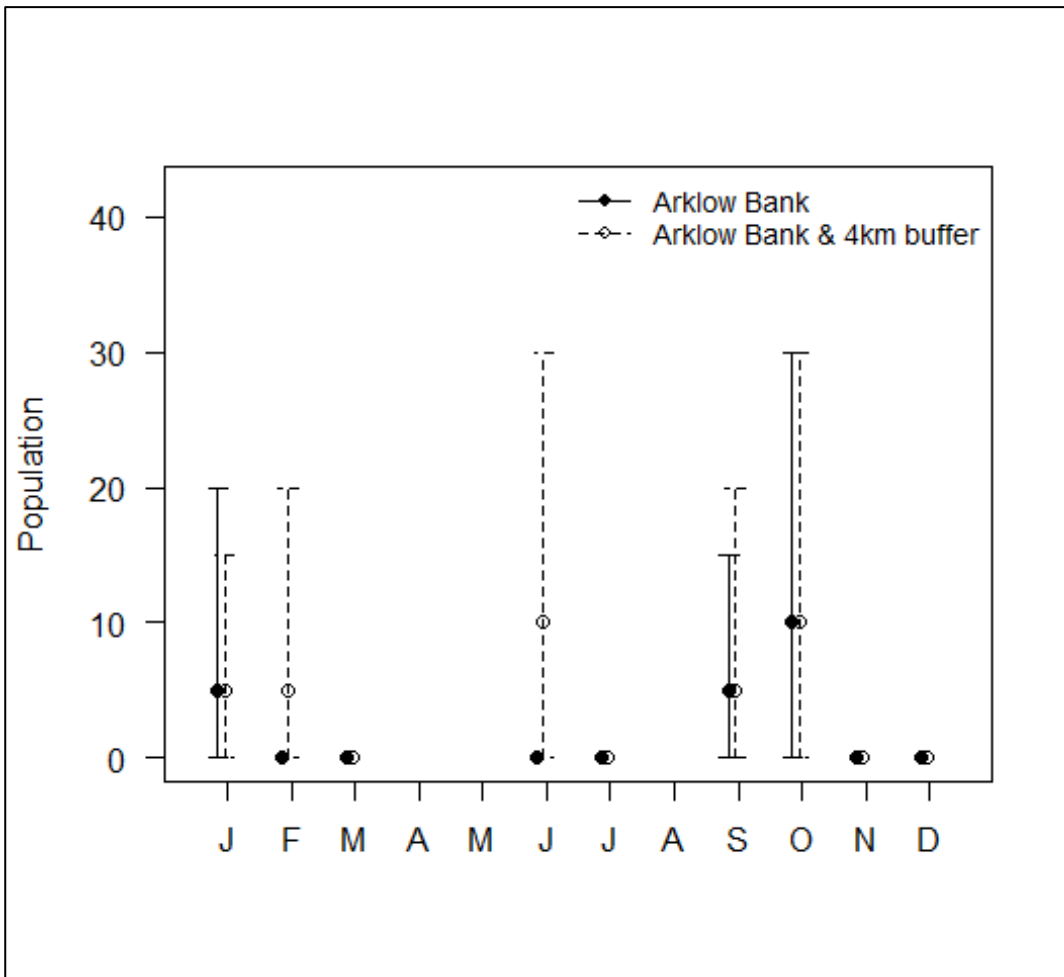


Figure 12.6.9: Cormorant abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

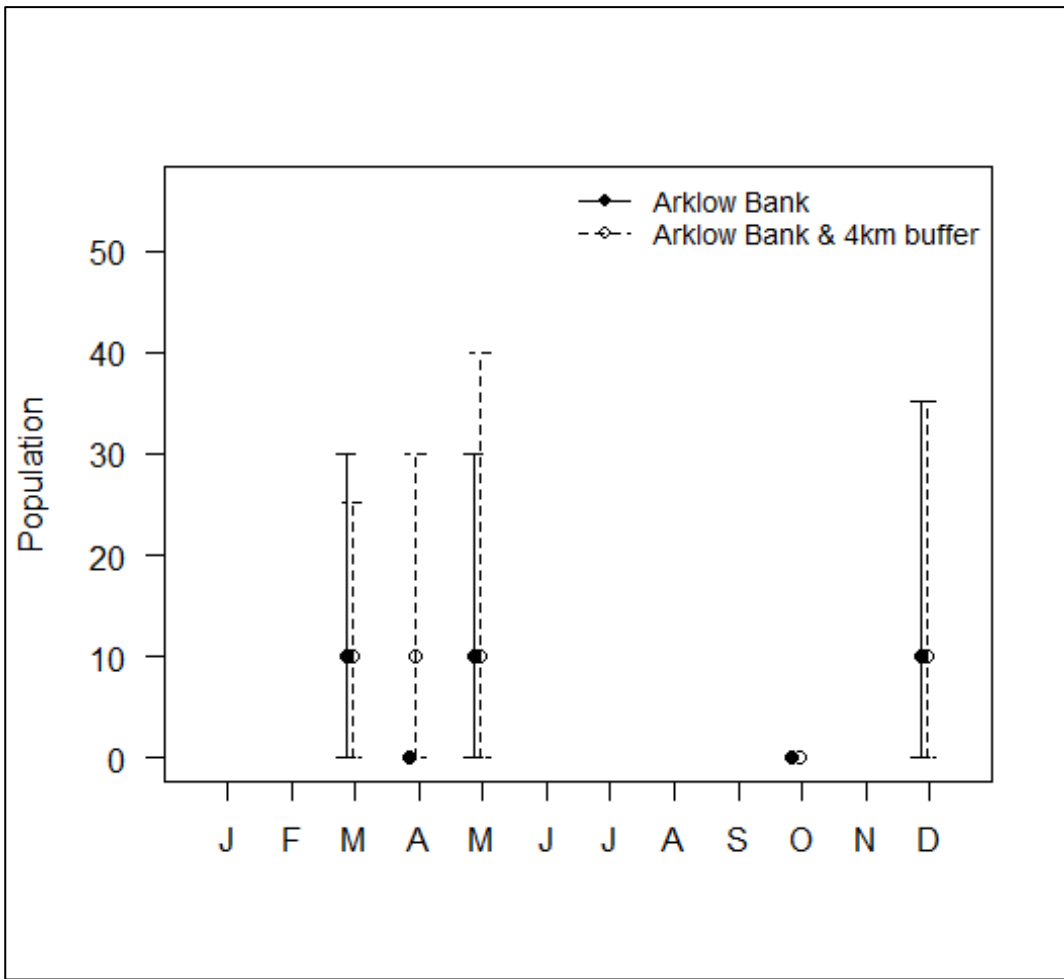


Figure 12.6.10: Cormorant/shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

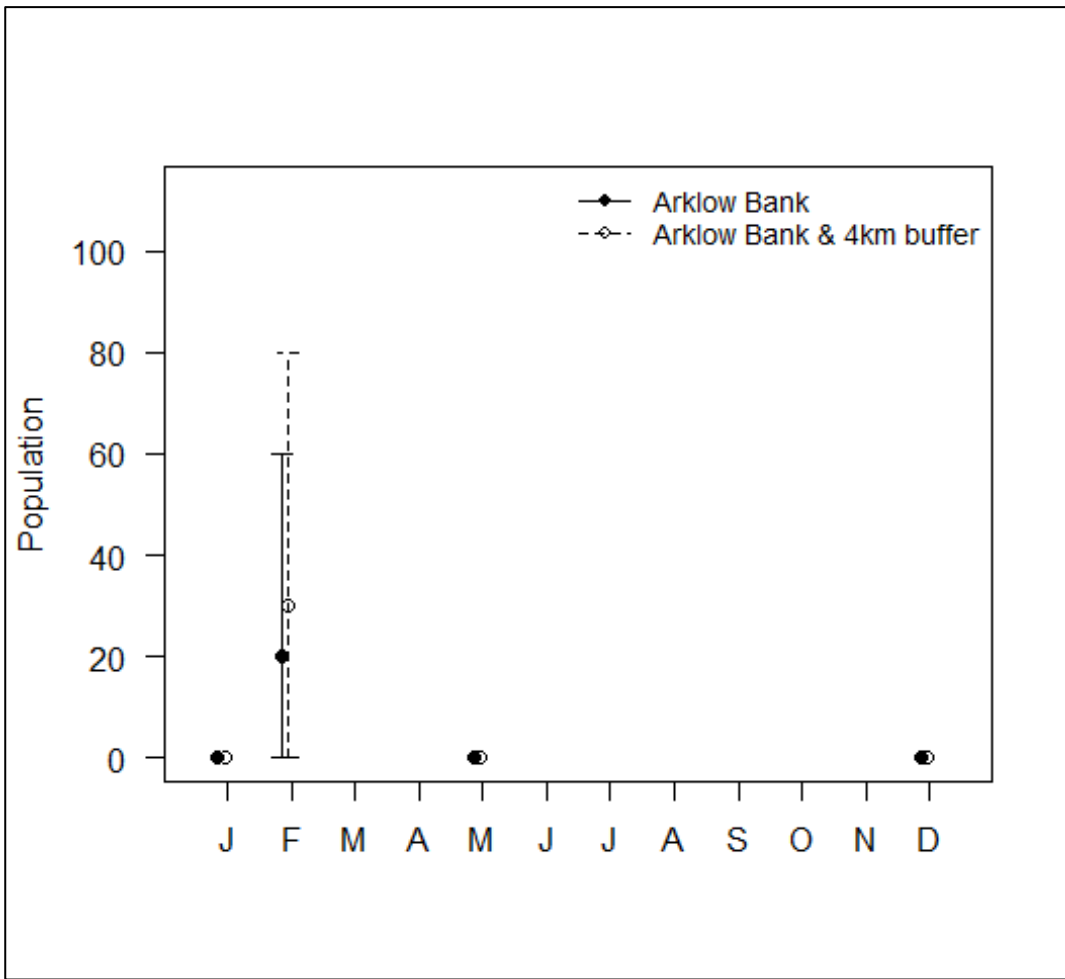


Figure 12.6.11: Diver species abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

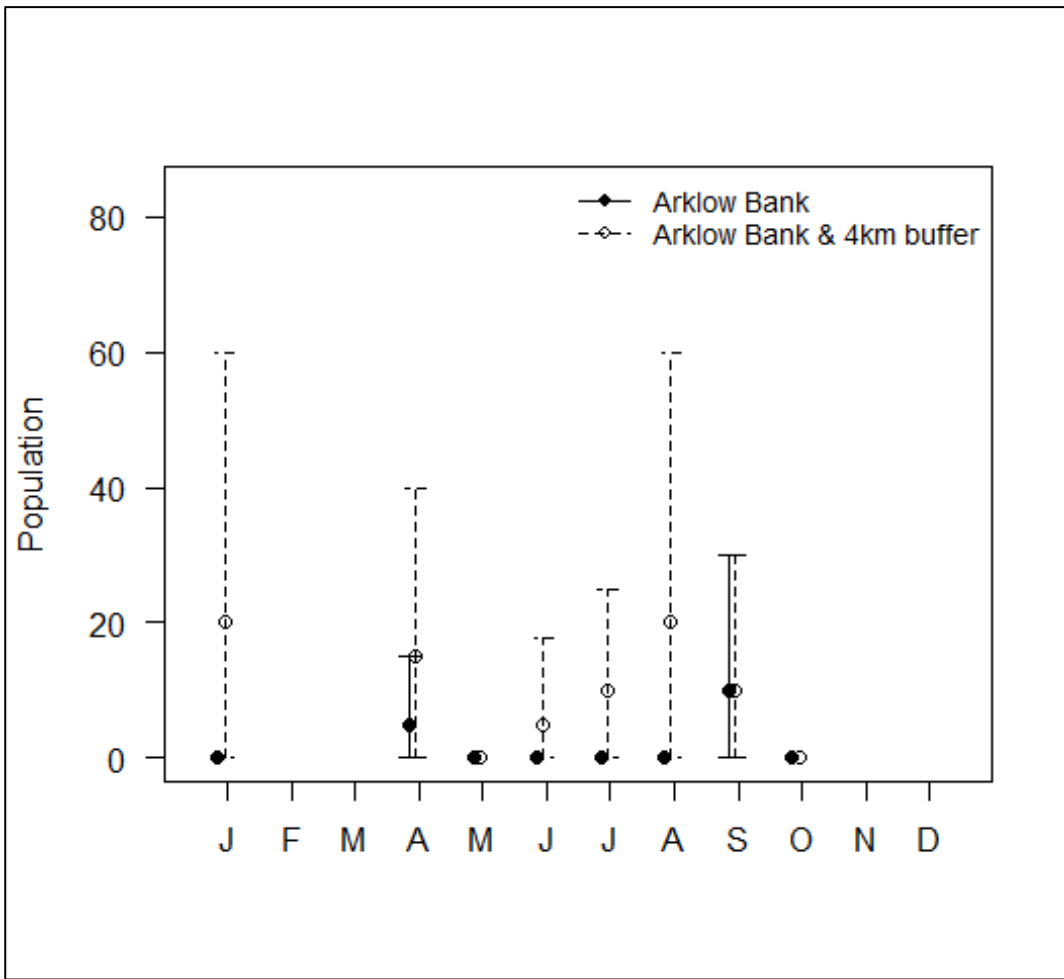


Figure 12.6.12: Fulmar abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

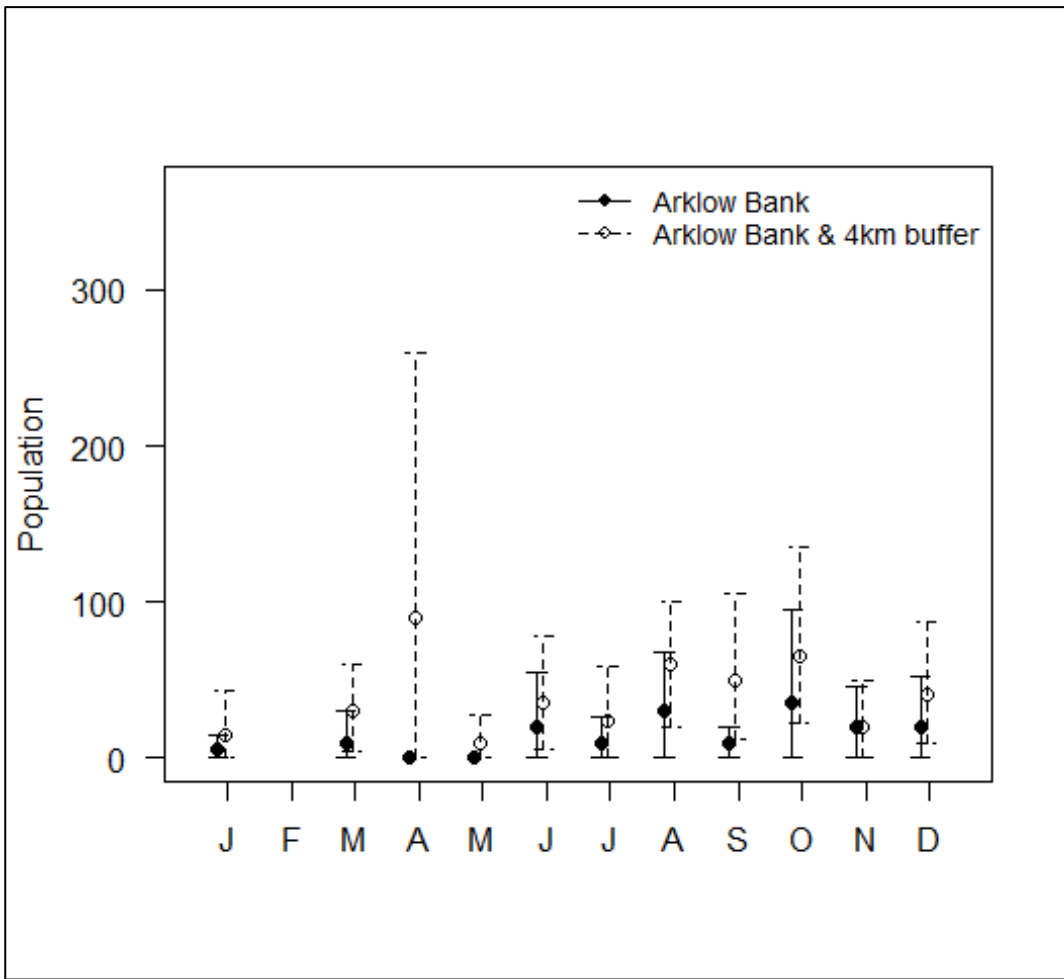


Figure 12.6.13: Gannet abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

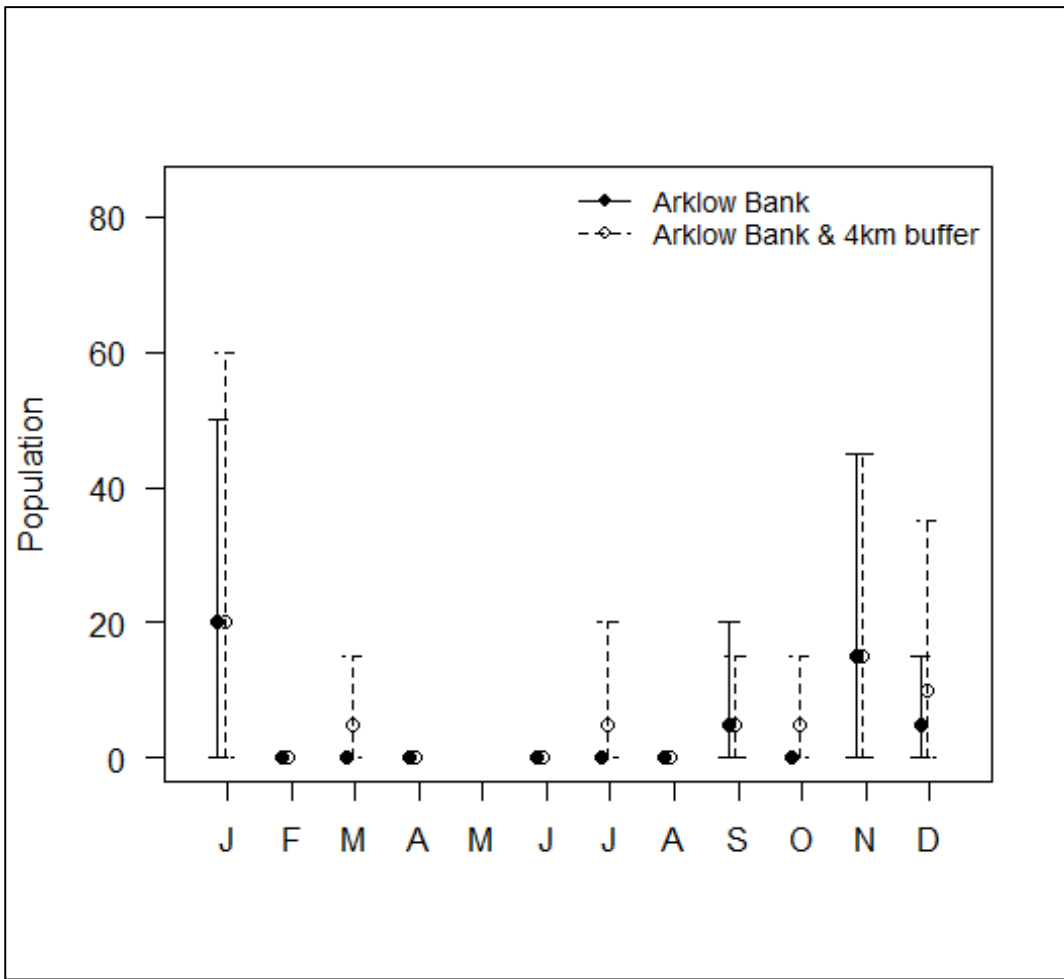


Figure 12.6.14: Great black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

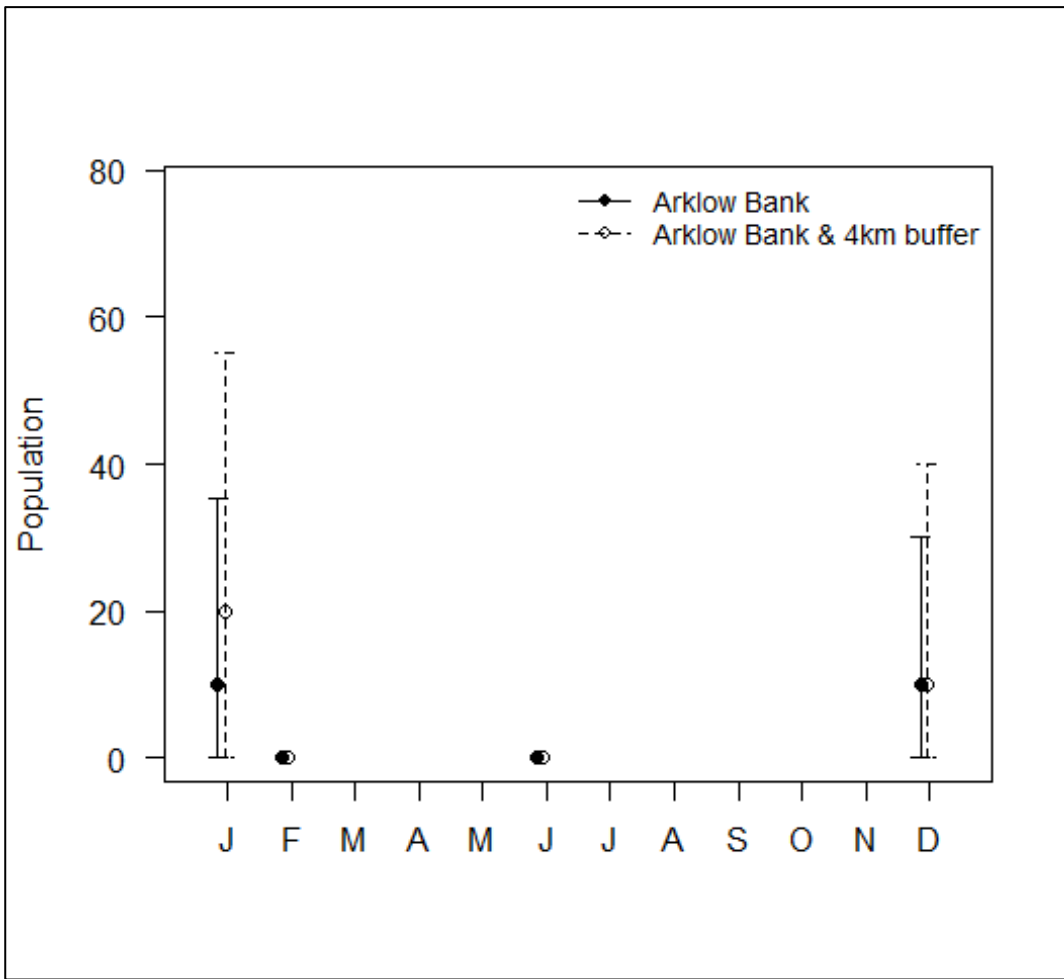


Figure 12.6.15: Great northern diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

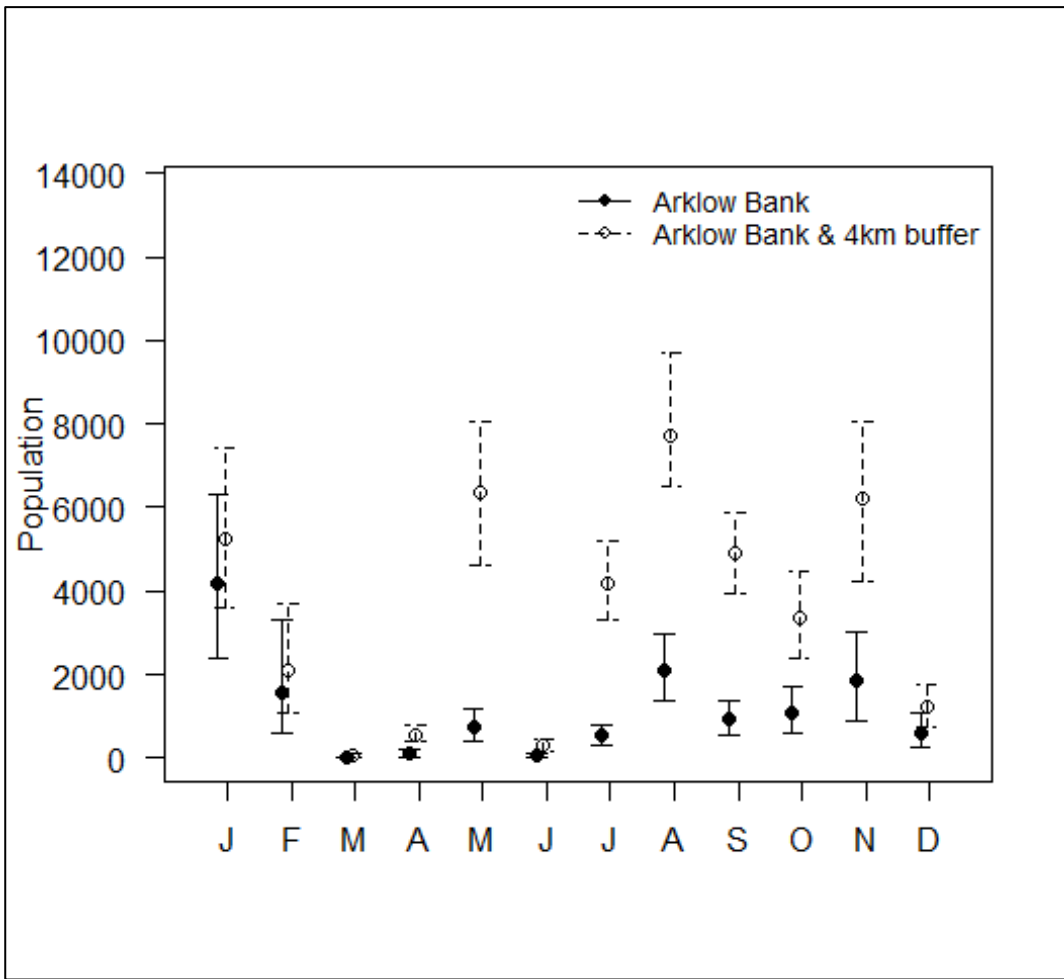


Figure 12.6.16: Guillemot abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

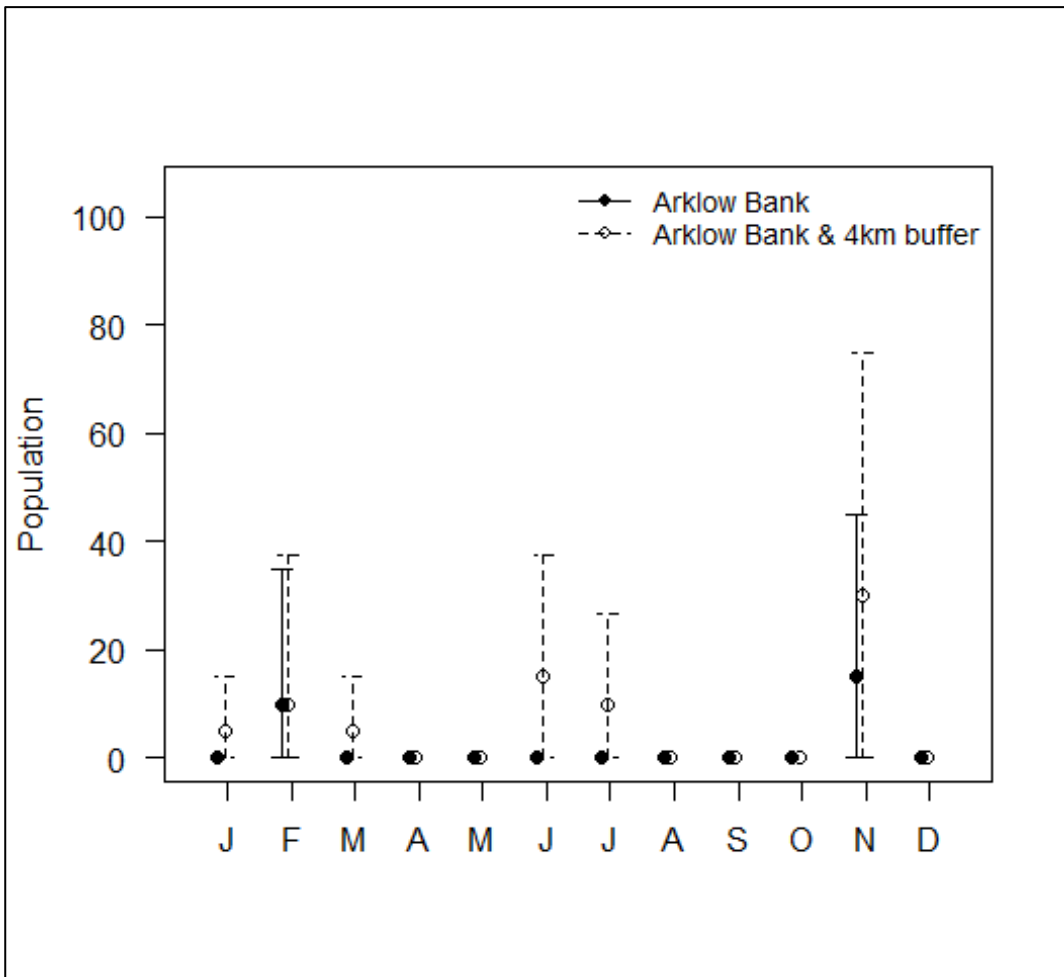


Figure 12.6.17: Herring gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

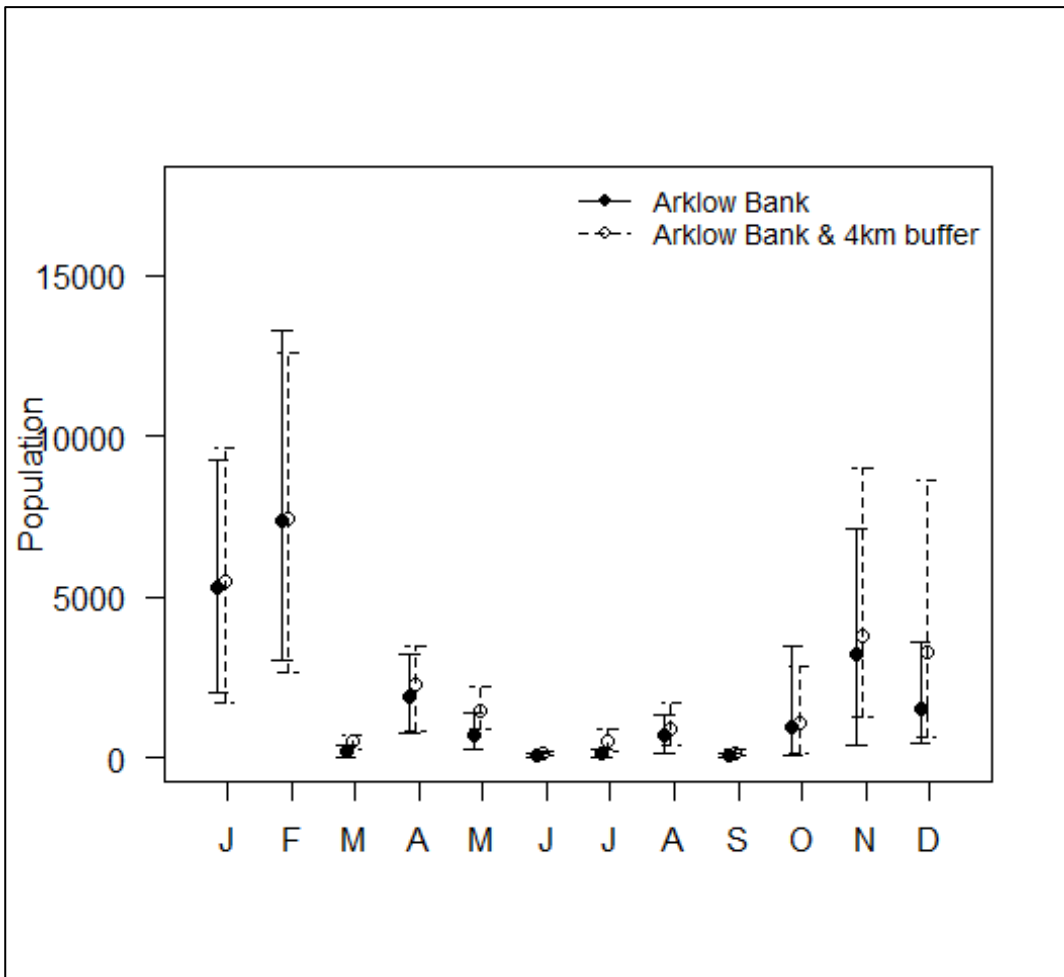


Figure 12.6.18: Kittiwake abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

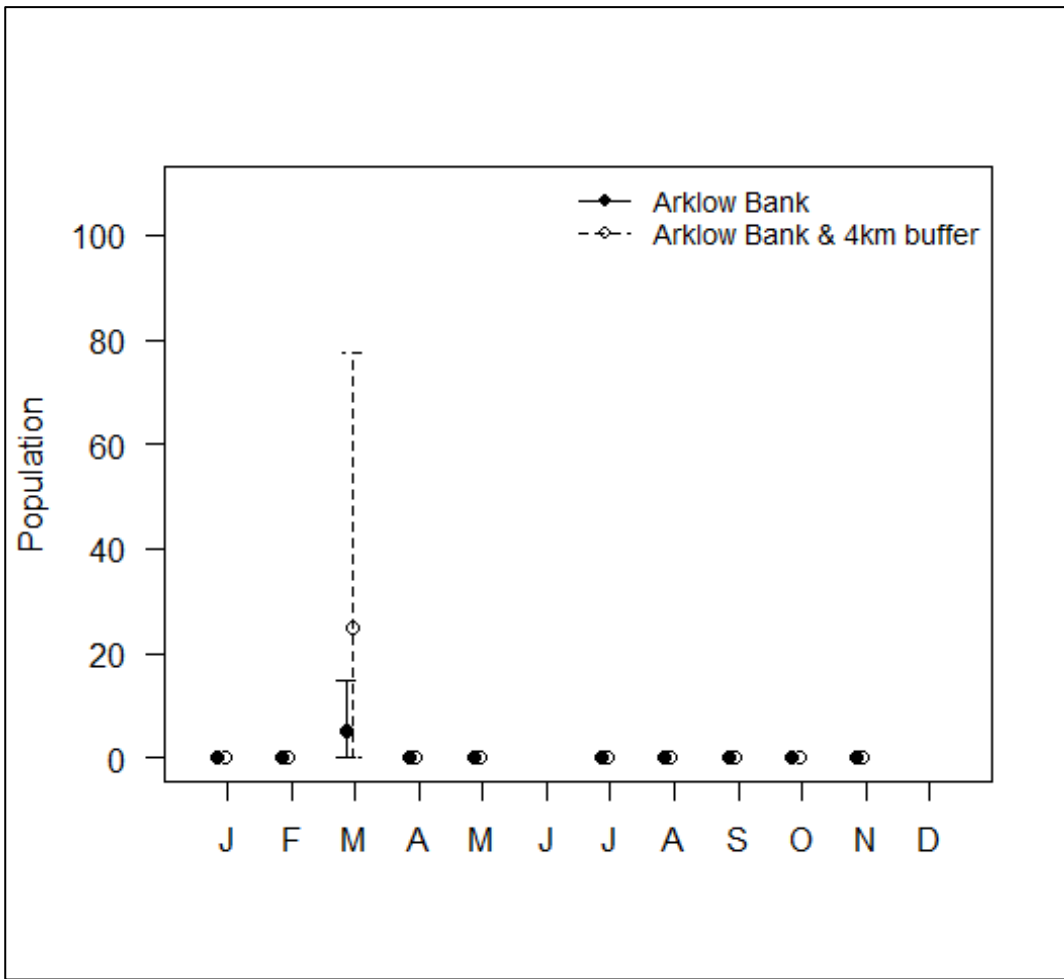


Figure 12.6.19: Lesser black-backed gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

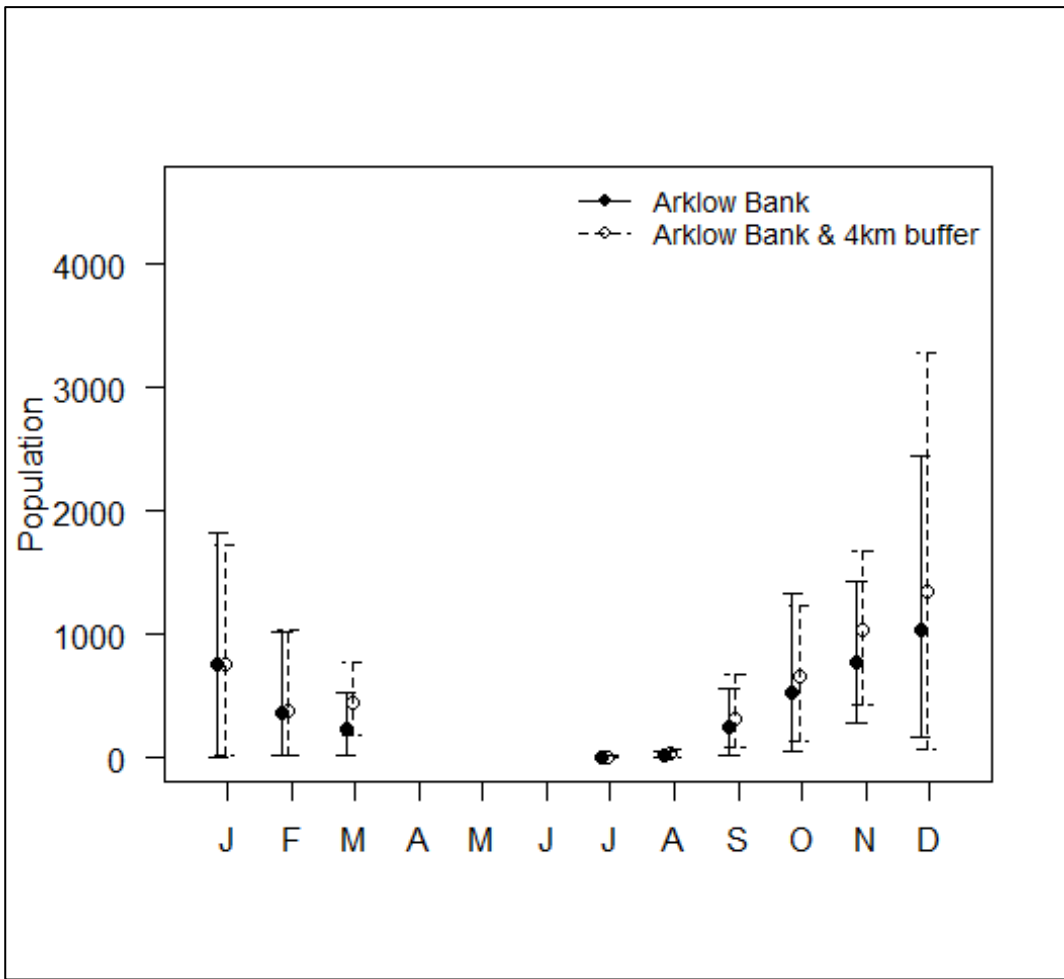


Figure 12.6.20: Little gull abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

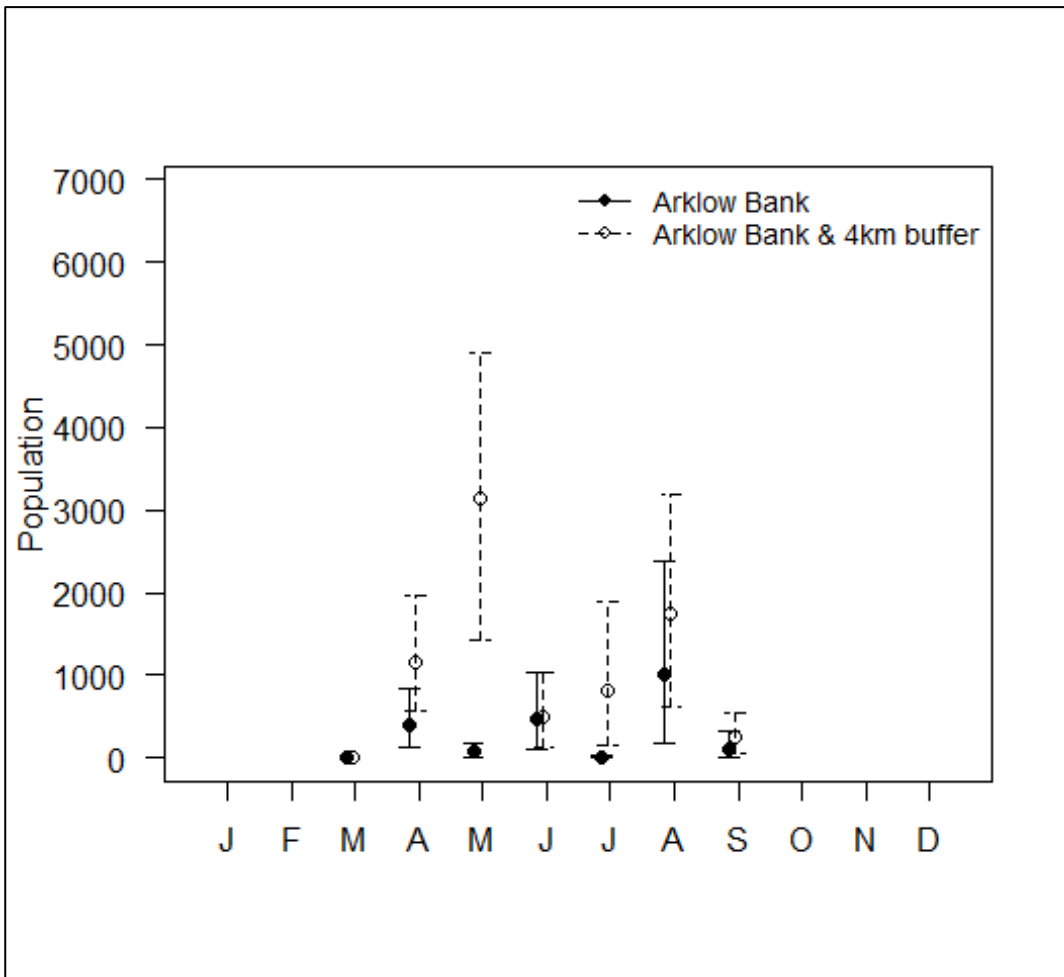


Figure 12.6.21: Manx shearwater abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

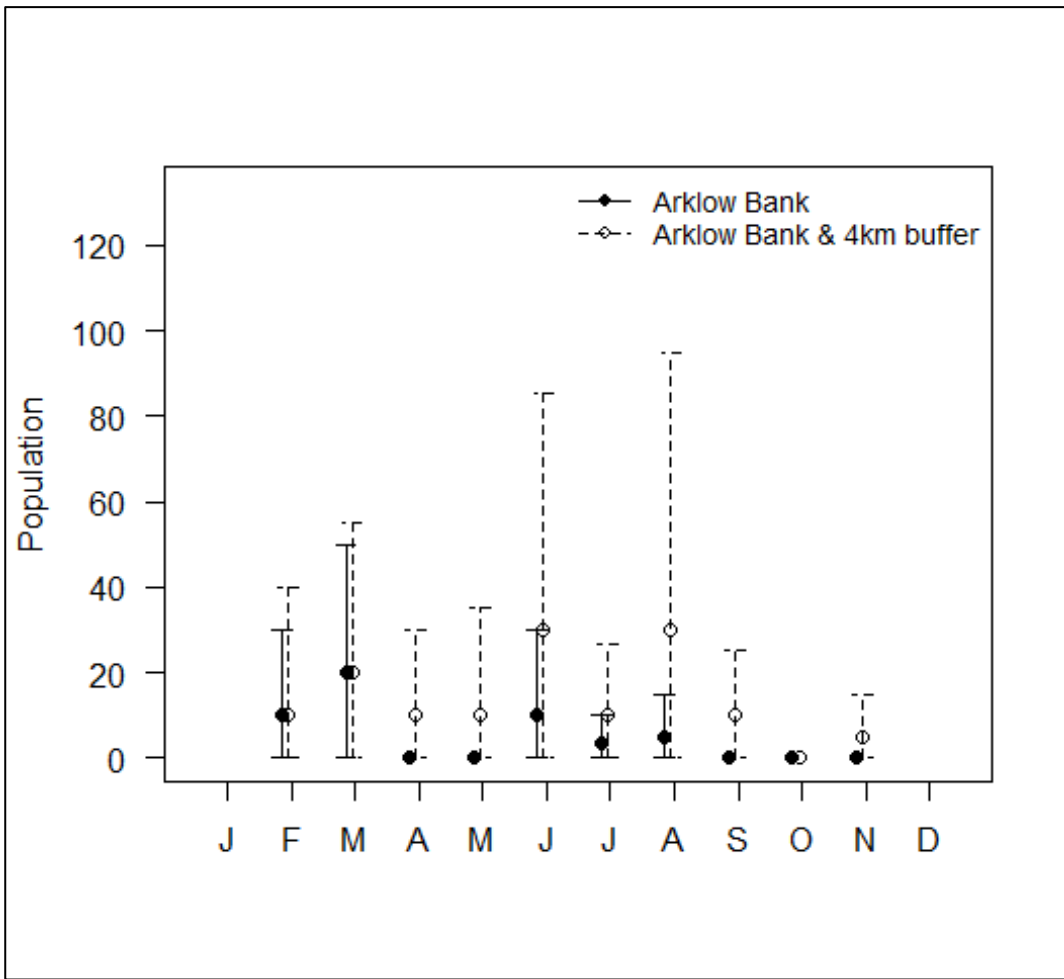


Figure 12.6.22: Puffin abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

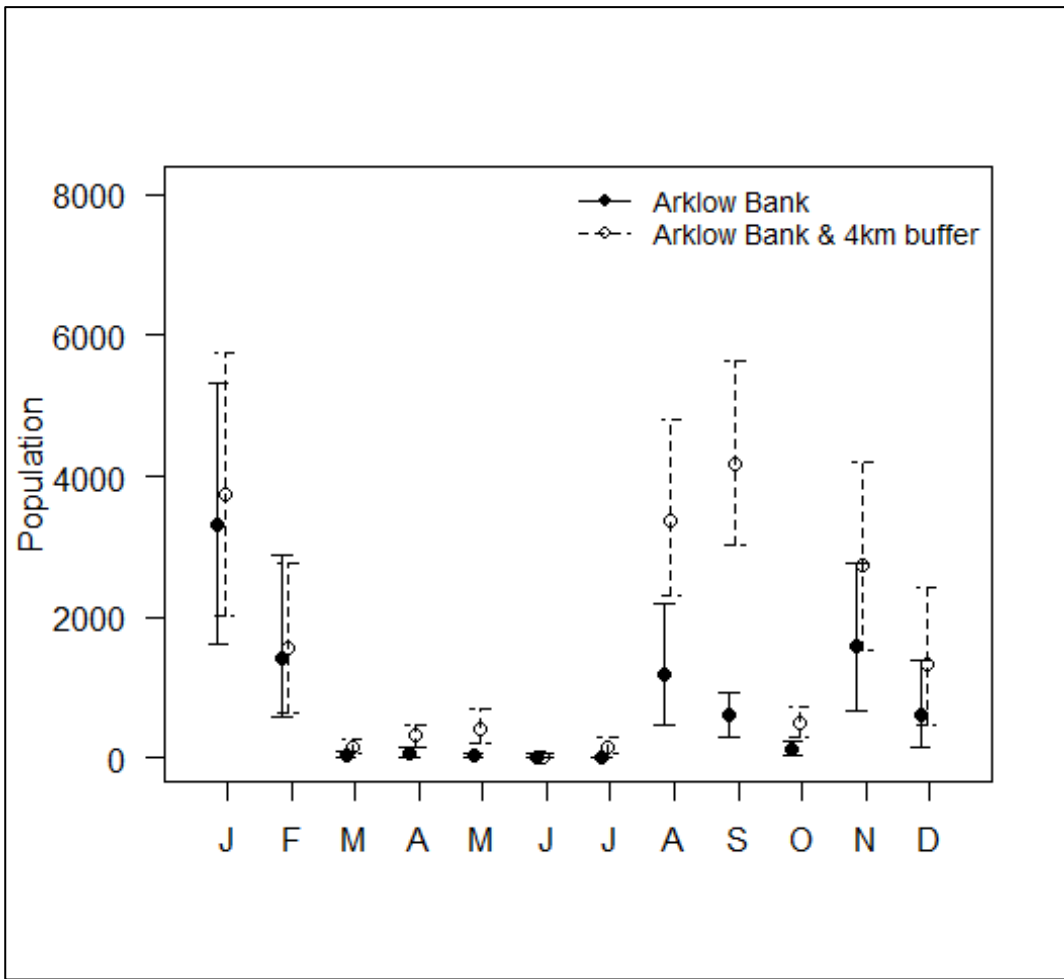


Figure 12.6.23: Razorbill abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

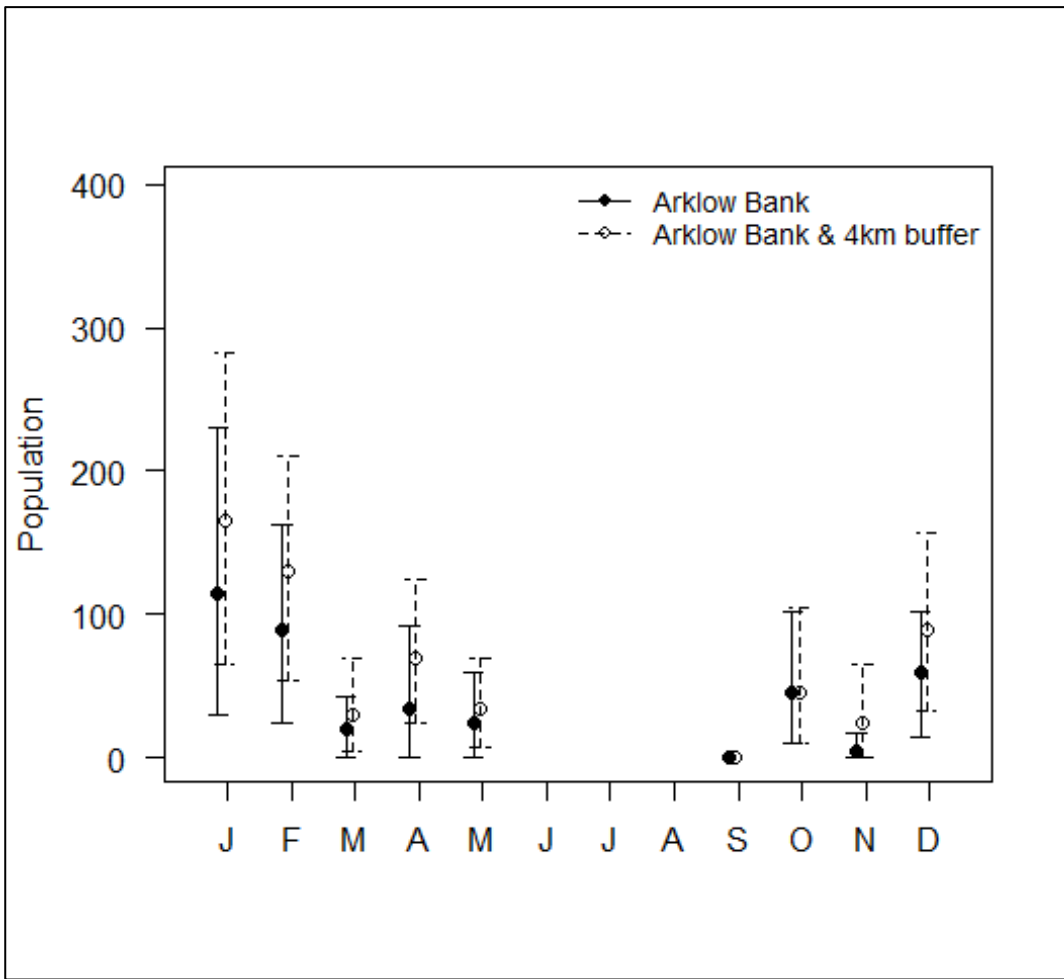


Figure 12.6.24: Red-throated diver abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

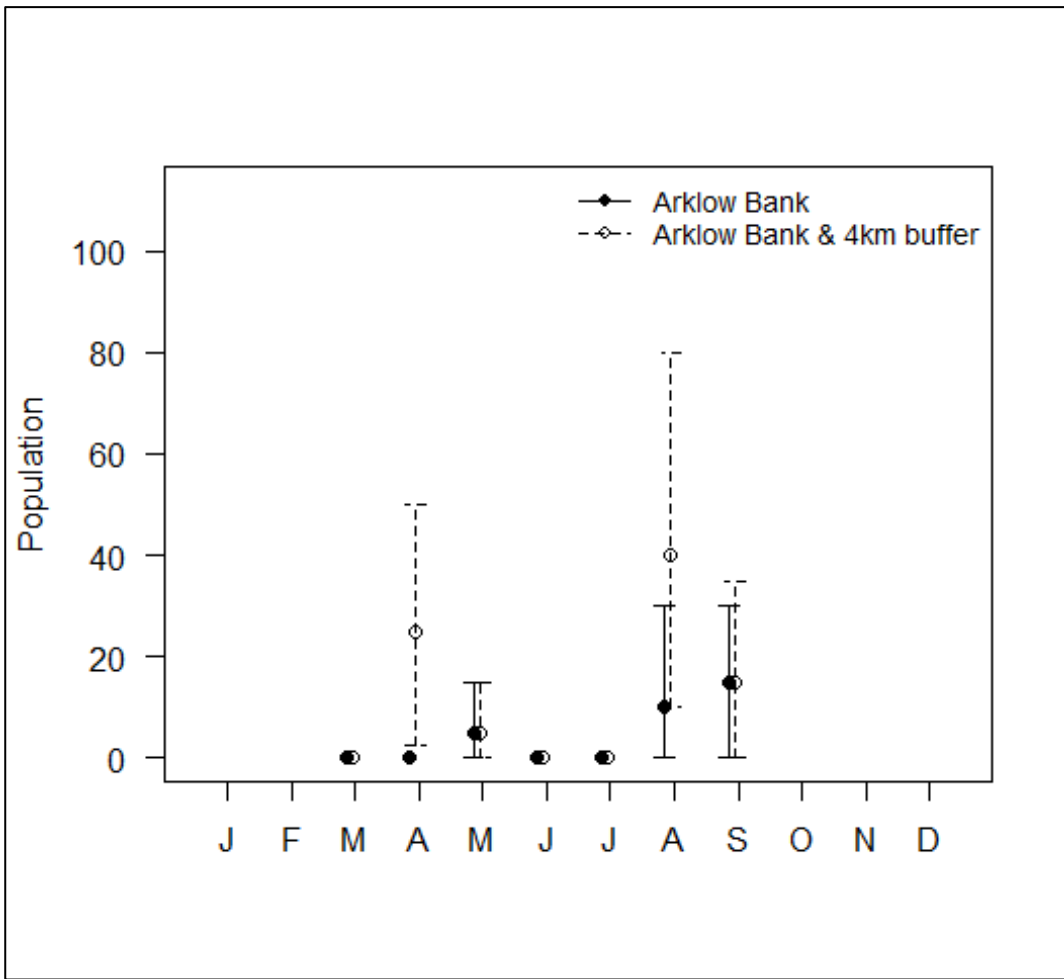


Figure 12.6.25: Sandwich tern abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.

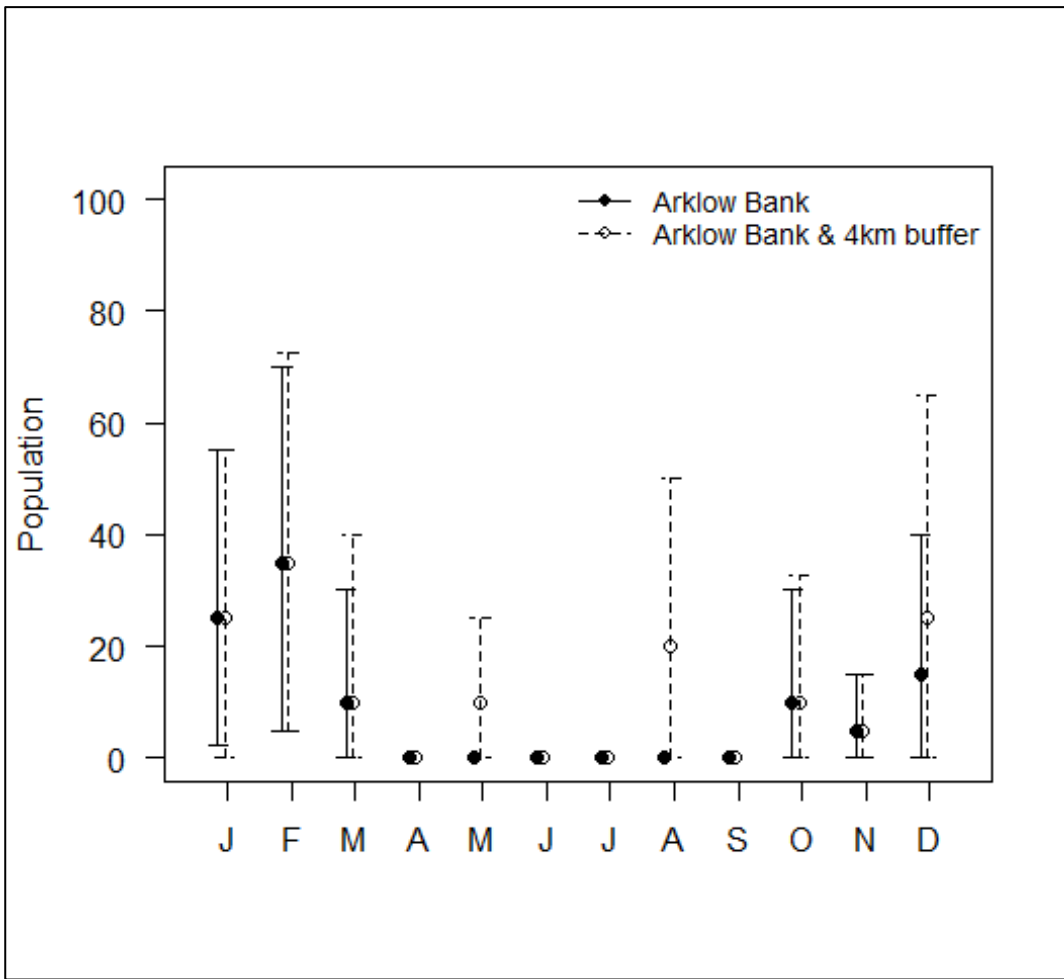


Figure 12.6.26: Shag abundance in the Array Area and 4 km buffer. Mean monthly values averaged over years, upper and lower 95% confidence intervals generated using bootstrapping.