

Love thy neighbour? – Spatial variation in density dependence of nest survival in relation to predator community. *Diversity and Distributions* (2021).

Authors:

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File list and description:

- *CodeAnalysis.R* - the only file that you need to open. It loads datasets and has the code to run the analysis to reproduce the results described in the paper.

- *Data.csv* – the data used to run the code described in *CodeAnalysis.R*. The columns of the csv file means the following:

- NestSuccess: if a nest was successful (with at least one hatchling); 0=not successful, 1=successful
- OYC_Density: nesting density of oystercatcher in a radius of 100m around the nest location in breeding pair/ha.
- Dist_km: distance from the nest location to the coast in km
- Year: year of monitoring the nest survival
- Habitat: Habitat type where nest was located
- MamDominance: Mammalian dominance index; 1 meaning only mammalian predators are present around the nest location, 0 meaning that only avian predators are present around the nest location
- ObsDays: number of days the nest is exposed and monitored.
- Fail: 0 meaning the nest was successful (at least 1 hatchling), 1 meaning the nest was not successful (0 hatchlings); this is the inverse from NestSuccess.
- Method: Subpop=local population dataset (island populations), Nestkaart= country-wide dataset
- Loc: location, meaning the name of the local populations
 - Ameland Oerd=Island 1 population 1 (Fig. 2)
 - Ameland Vierkant=Island 1 population 2 (Fig. 2)
 - Schier=Island 2 (Fig. 2)
 - Hoge Berg=Island 3 population 2 (Fig. 2)
 - Stex=Island 3 population 1 (Fig. 2)
 - Nestkaart= country-wide dataset (Fig. 2)
- Godwit_Density: nesting density of black-tailed godwits within a radius of 100m around an oystercatcher nest location in breeding pair/ha
- Lapwing_Density: nesting density of northern lapwings within a radius of 100m around an oystercatcher nest location in breeding pair/ha
- Redshank_Density: nesting density of common redshanks within a radius of 100m around an oystercatcher nest location in breeding pair/ha
- AllMeadowBirdSpc_Density: nesting density of all four meadow birds (oystercatcher, godwit, lapwing, redshank) combined within a radius of 100m around an oystercatcher nest location in breeding pair/ha

- *DataFig4.csv* – Data for plotting Figure 4. The data are extracted when running the R code.

- Population: indicating the abbreviation of the populations
 - AC=Island 1 population 1 (Fig. 2)
 - AI=Island 1 population 2 (Fig. 2)
 - S=Island 2 (Fig. 2)
 - S*=Island 2 where data from another study is used
 - TI=Island 3 population 2 (Fig. 2)
 - TC=Island 3 population 1 (Fig. 2)
 - C Low=country-wide dataset with low mammalian dominance index
 - C Mid= country-wide dataset with medium mammalian dominance index
 - C High= country-wide dataset with high mammalian dominance index
- Estimate: beta of the model result
- Std_Error: standard error from the model result
- Median_MamDominance: median from the mammalian dominance index (per population)
- SD_MamDominance: standard deviation from the mammalian dominance index
- n: number of monitored nests
- Dataset: Local population or Country-wide dataset (Fig. 2)

- *Mammal.png* – image used for Figure 4

- *Bird.png* – image used for Figure 4