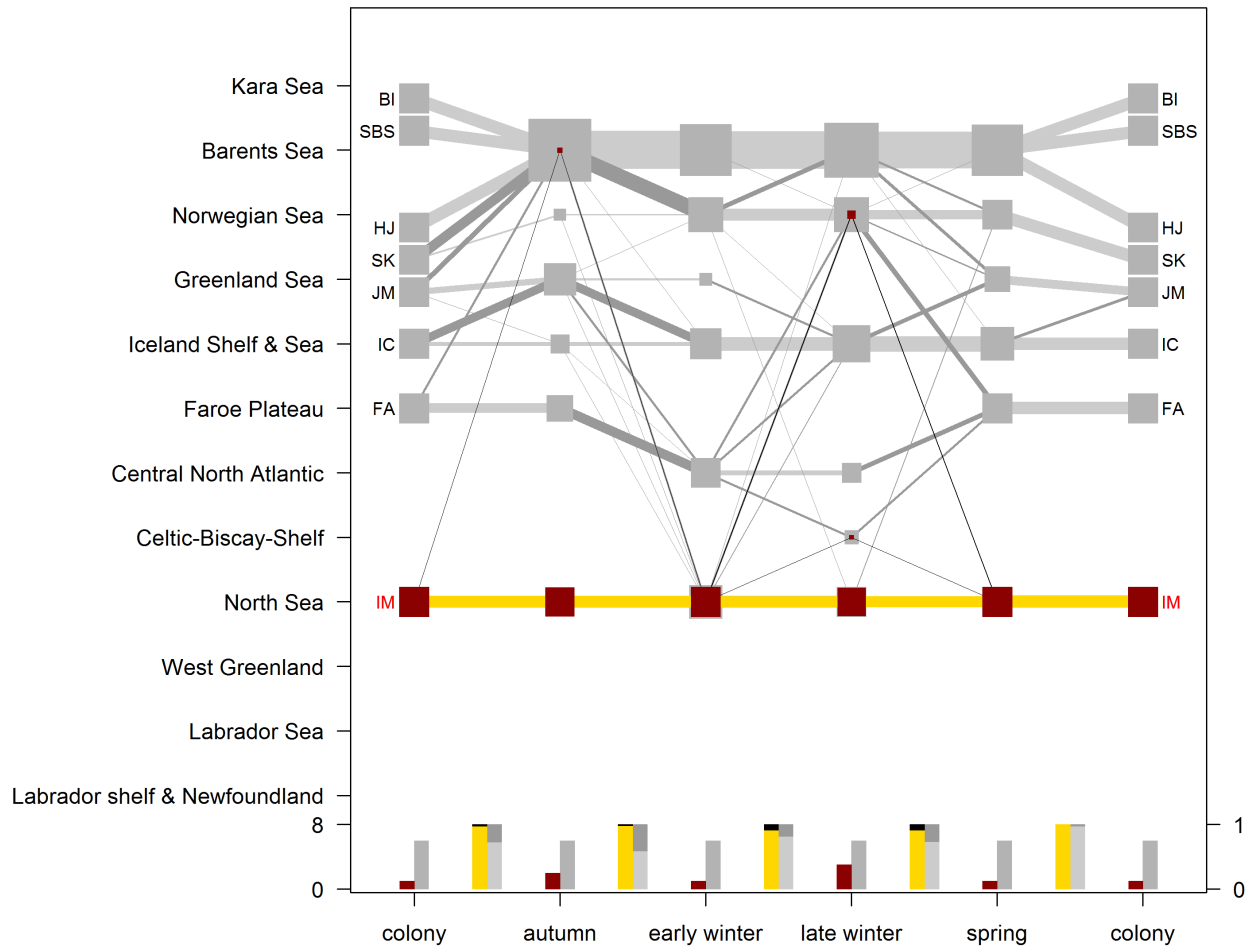


1 Supplementary information 3

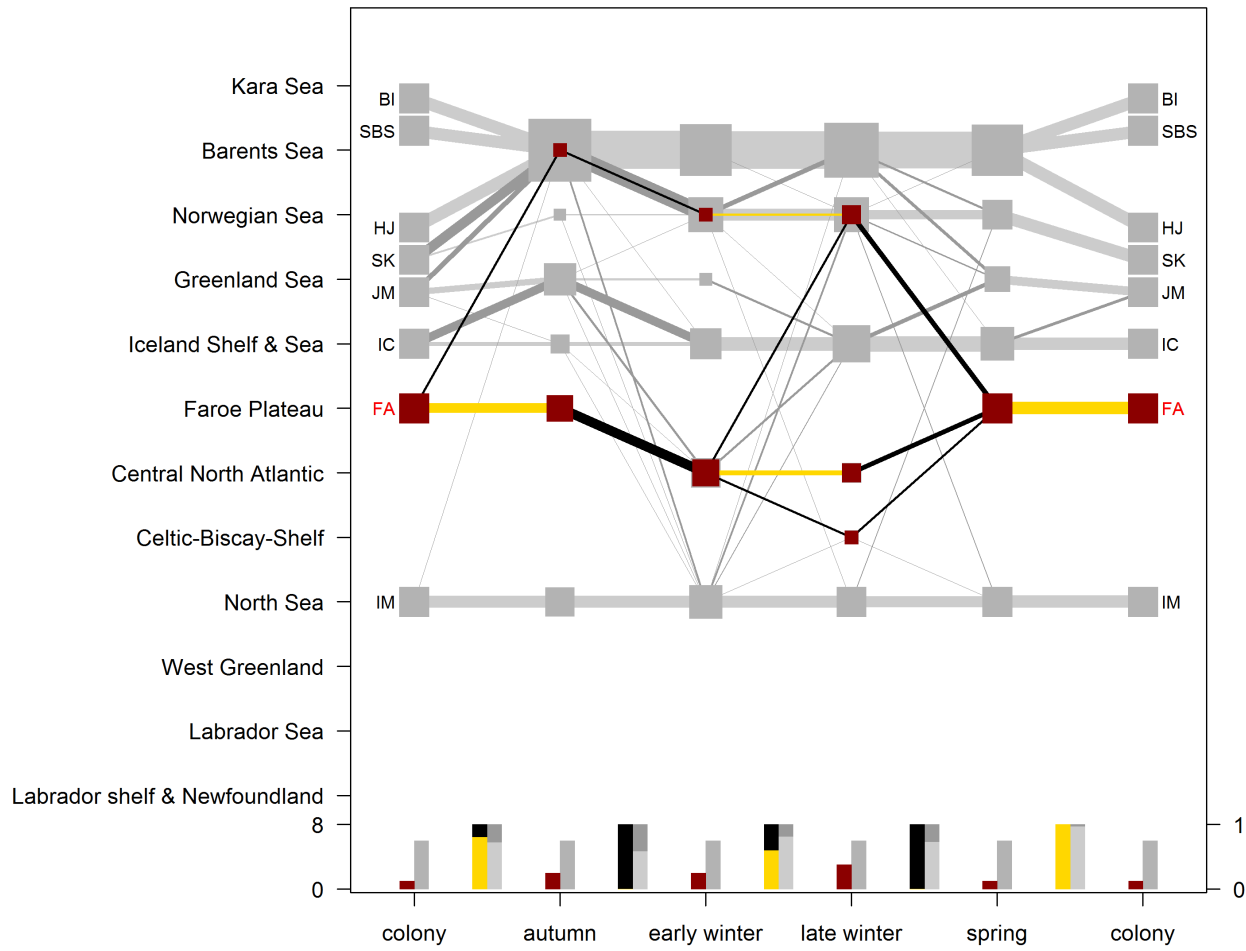
2 Species- and population-specific movement networks by large marine ecoregion (y axis) and season (x
3 axis). Each population is scaled to the same size and all nodes (squares) and edges (lines) are scaled to
4 their usage accordingly. The entire species-specific movement network is plotted in grey scale in each
5 plot and each breeding population-specific network is displayed on top. Common guillemot movement
6 networks are displayed in figure S3.1-8 and Brünnich's guillemot movement networks in figure S3.9-16.
7 Dark grey bars at the bottom of each figure denote the number of ecoregions used during each season
8 by the entire network while dark red bars show population-specific use (scale on the left). Bars at the
9 bottom of the figure between seasons denote the proportion of movement between (grey = entire
10 network, black = population-specific) and within (light grey =entire network, yellow = population-
11 specific) ecoregions with scale on the right.

12 Breeding population names: SNZ = Southern Novaya Zemlya, NNZ = Northern Novaya Zemlya, ESP =
13 Eastern Spitsbergen, WSP = Western Spitsbergen, BI = Bjørnøya, SBS = Southern Barents Sea, HJ =
14 Hjelmsøya, SK = Sklinna, JM = Jan Mayen, IC = North-East Iceland, FA = Faroe Islands, IM = Isle of May



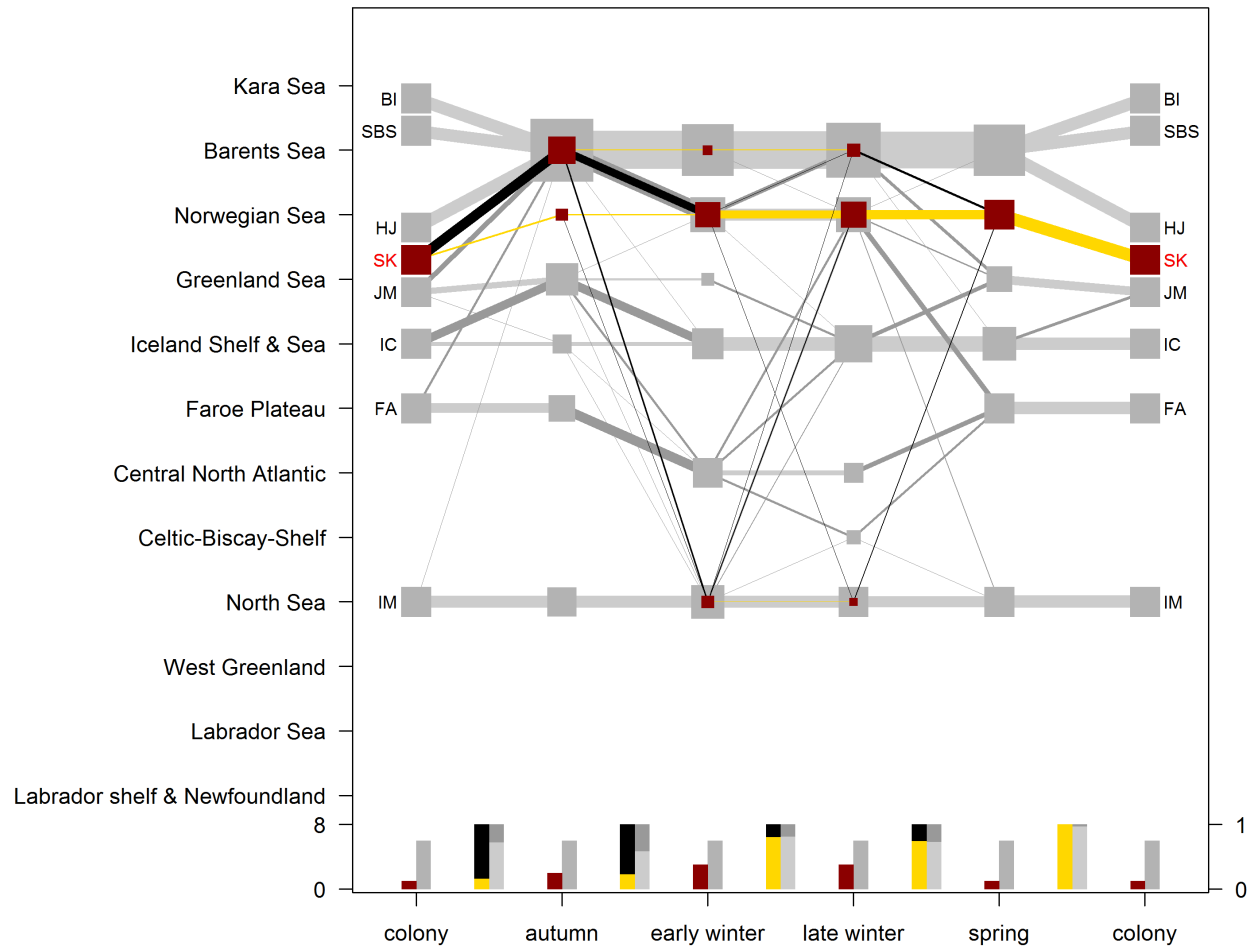
15

16 **Figure S3.1.** Common guillemots, Isle of May



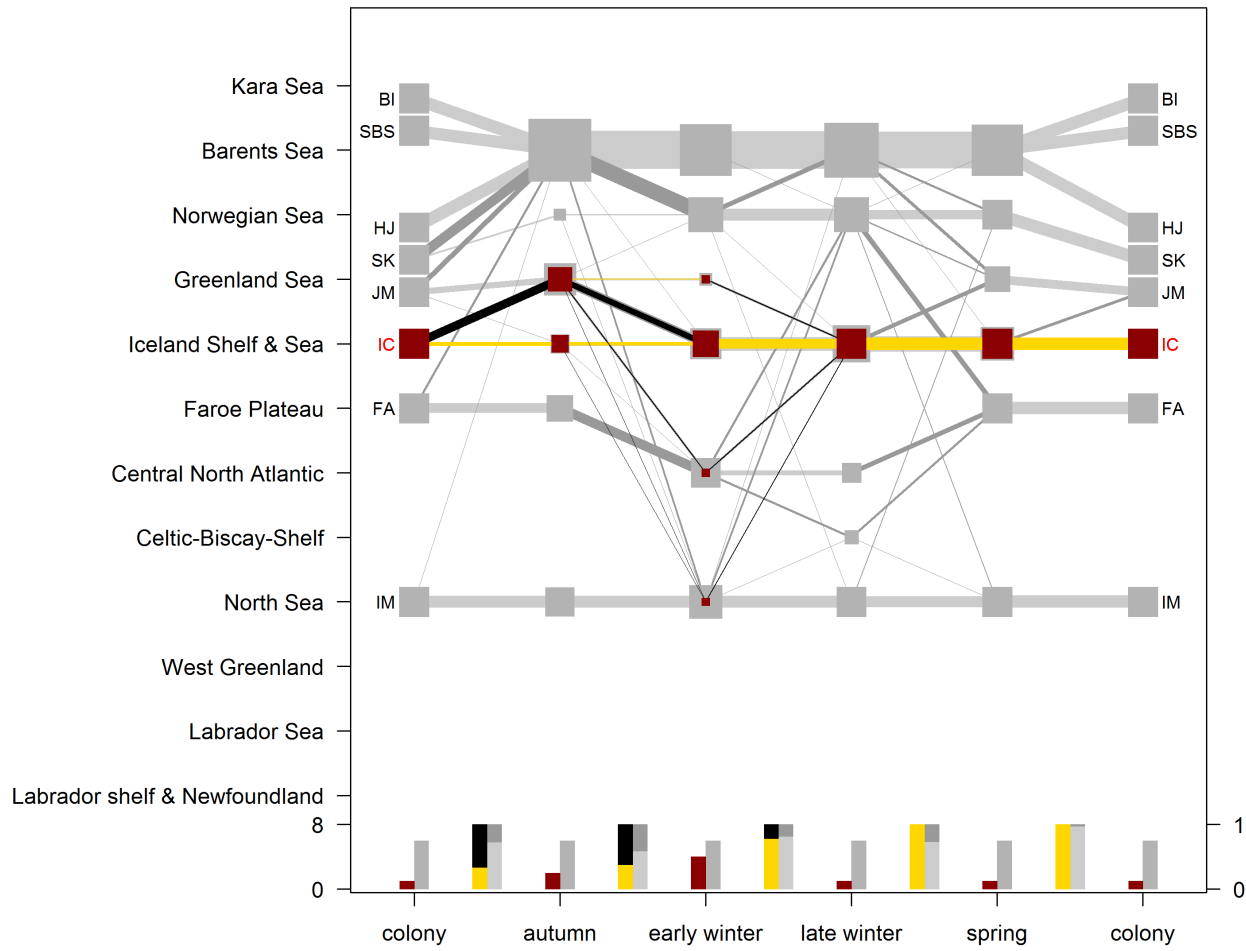
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18 **Figure S3.2.** Common guillemots, Faroe Islands



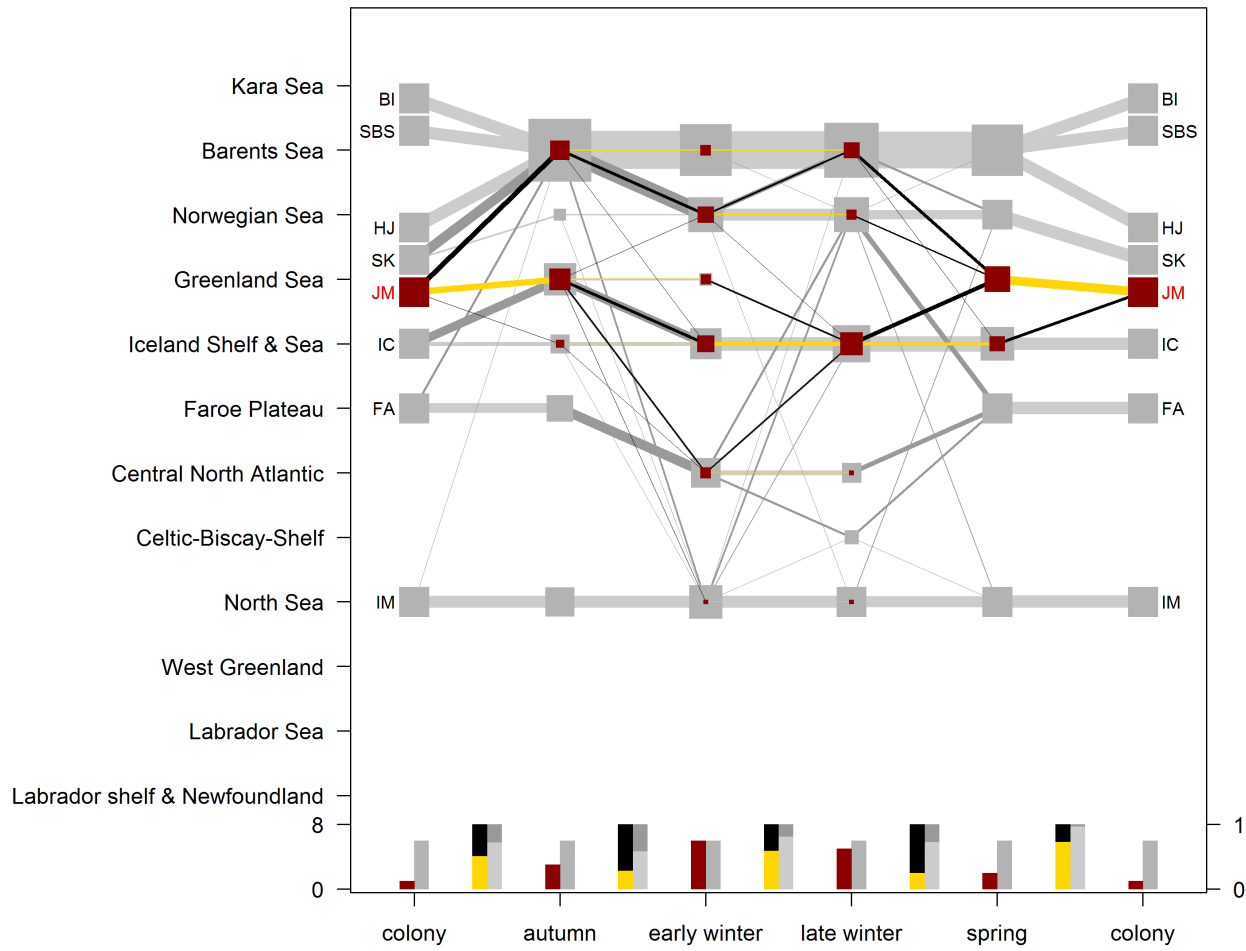
19

20 **Figure S3.3.** Common guillemots, Sklinna



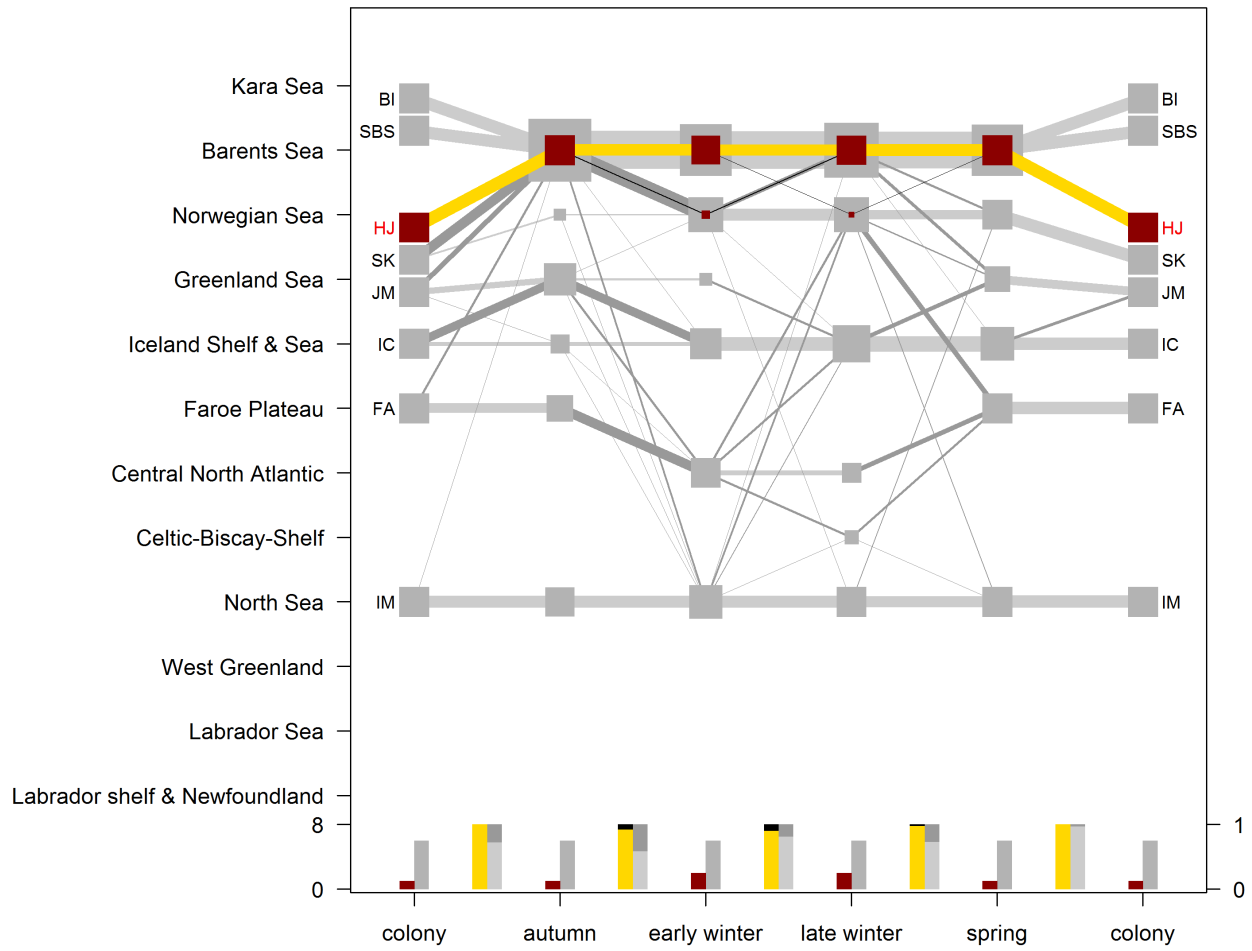
21

22 **Figure S3.4.** Common guillemots, North-East Iceland (Grimsey, Langanes)



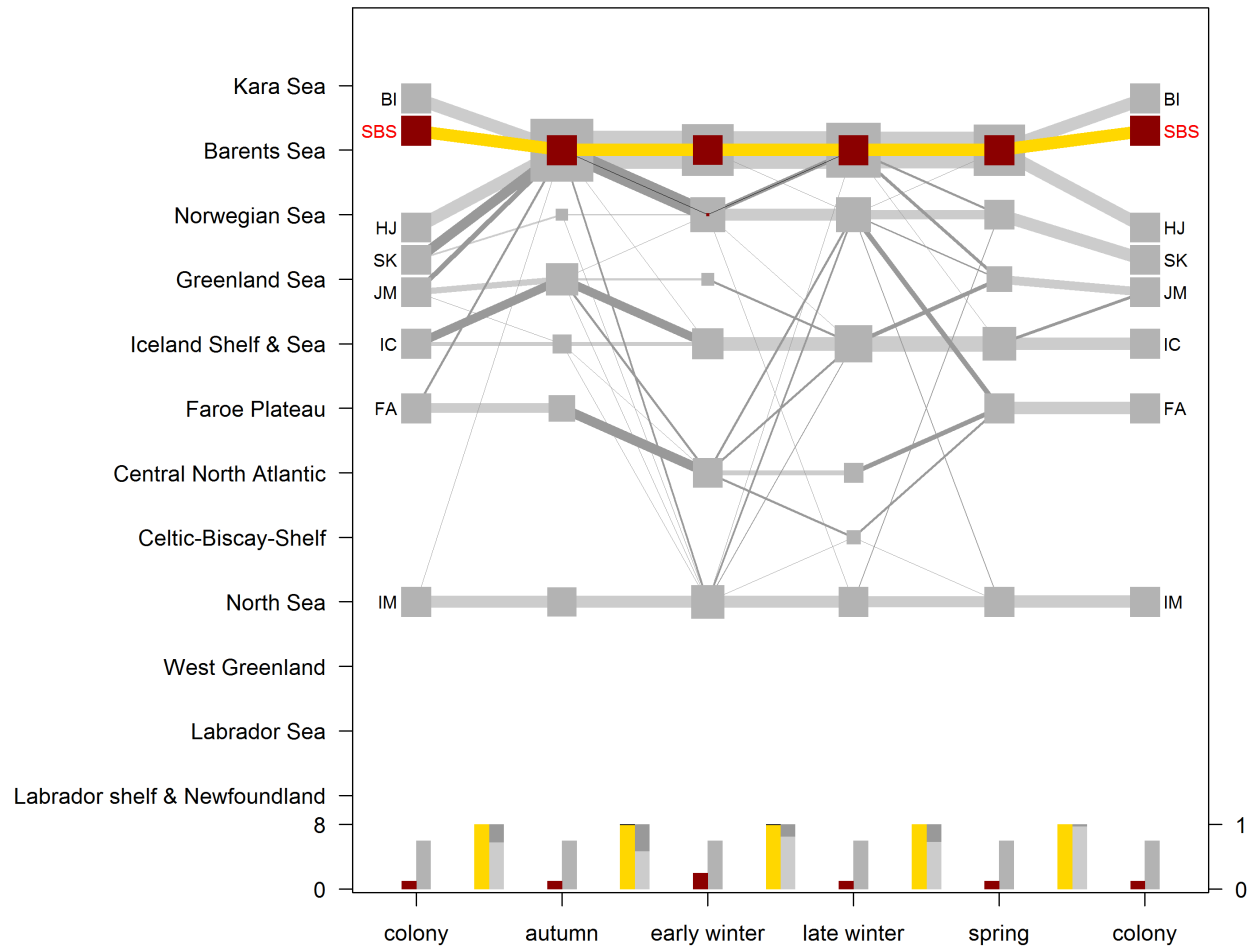
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24 **Figure S3.5.** Common guillemots, Jan Mayen



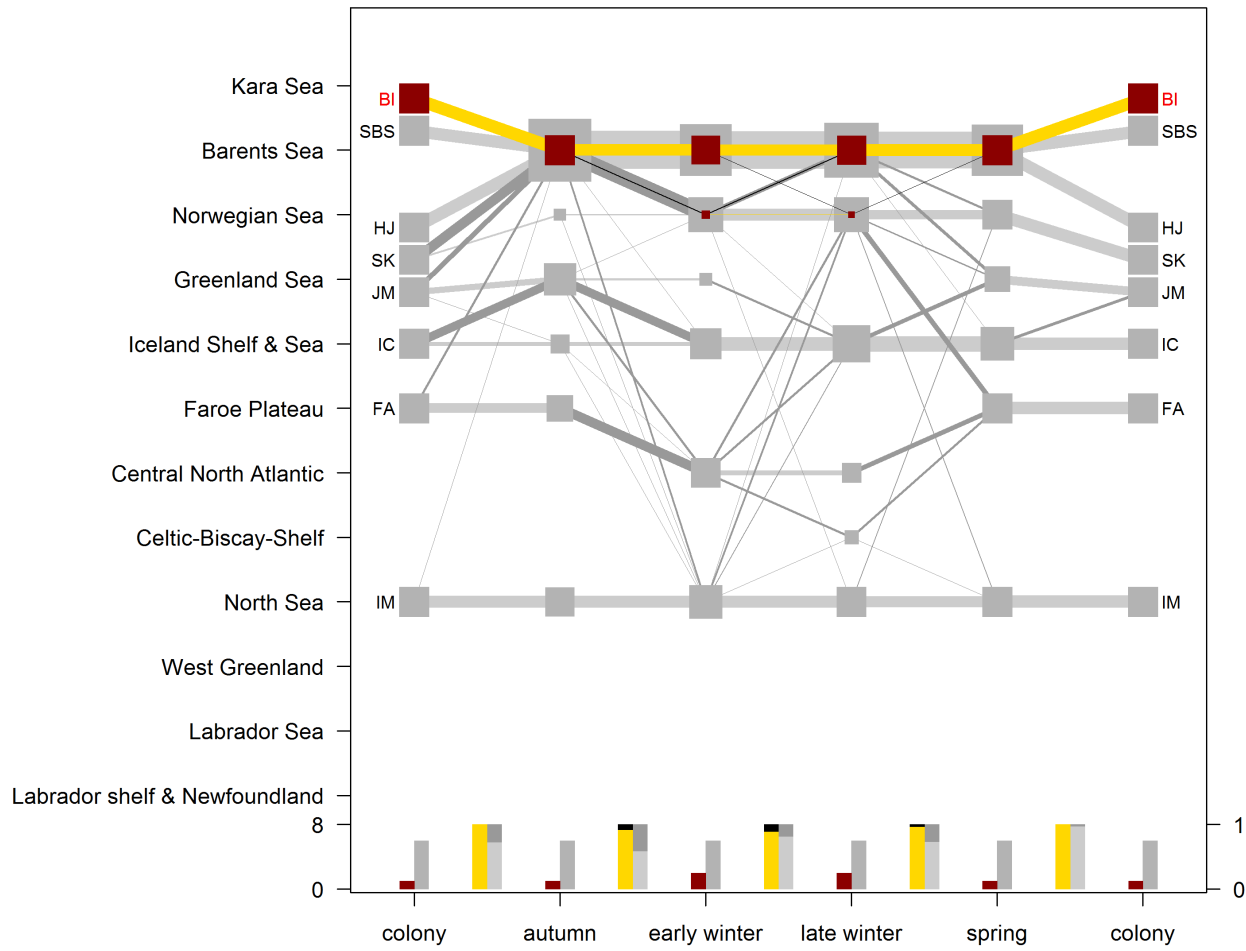
25

26 **Figure S3.6.** Common guillemots, Hjelmsøya



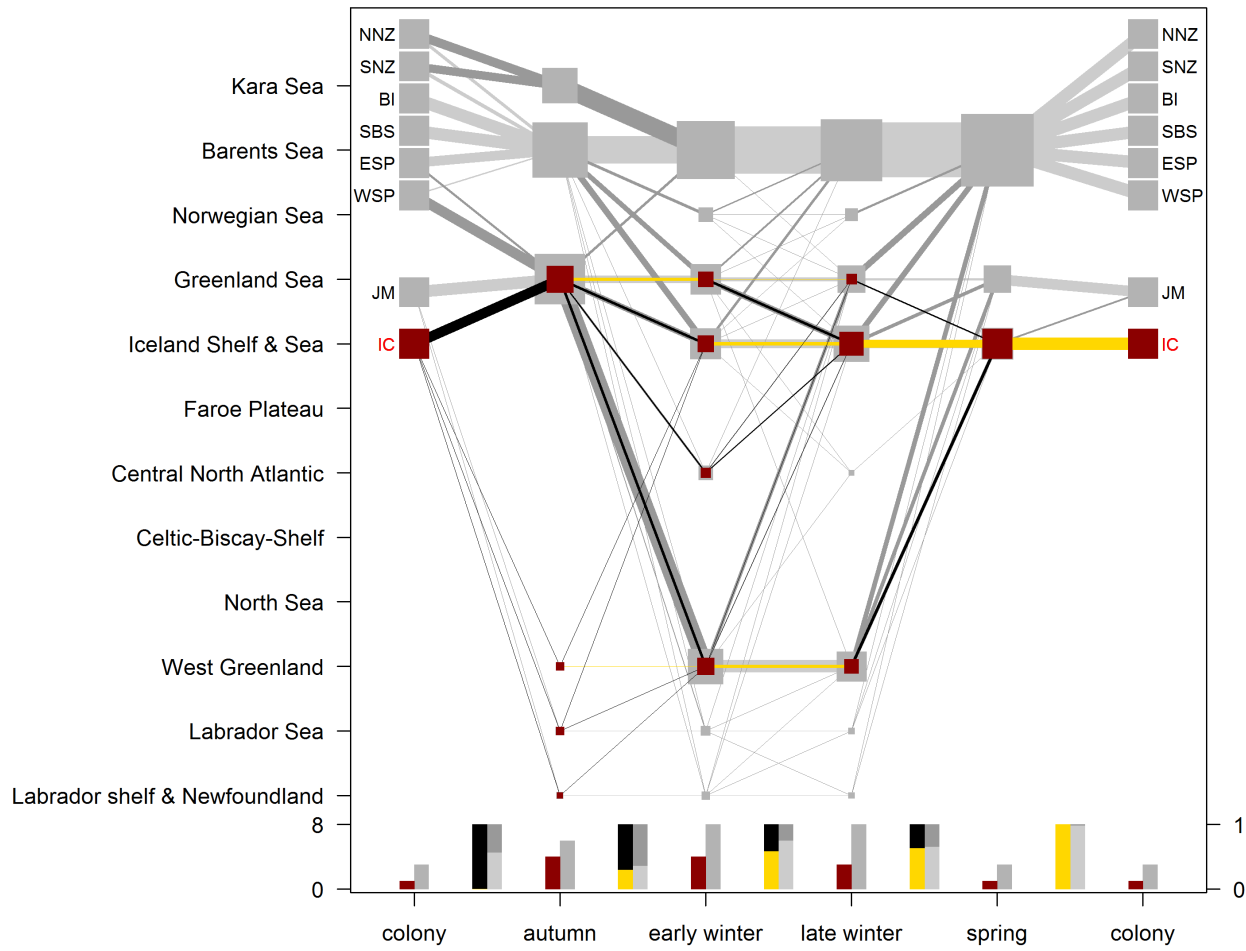
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28 **Figure S3.7.** Common guillemots, Southern Barents Sea (Hornøya and Cape Gorodetskiy)



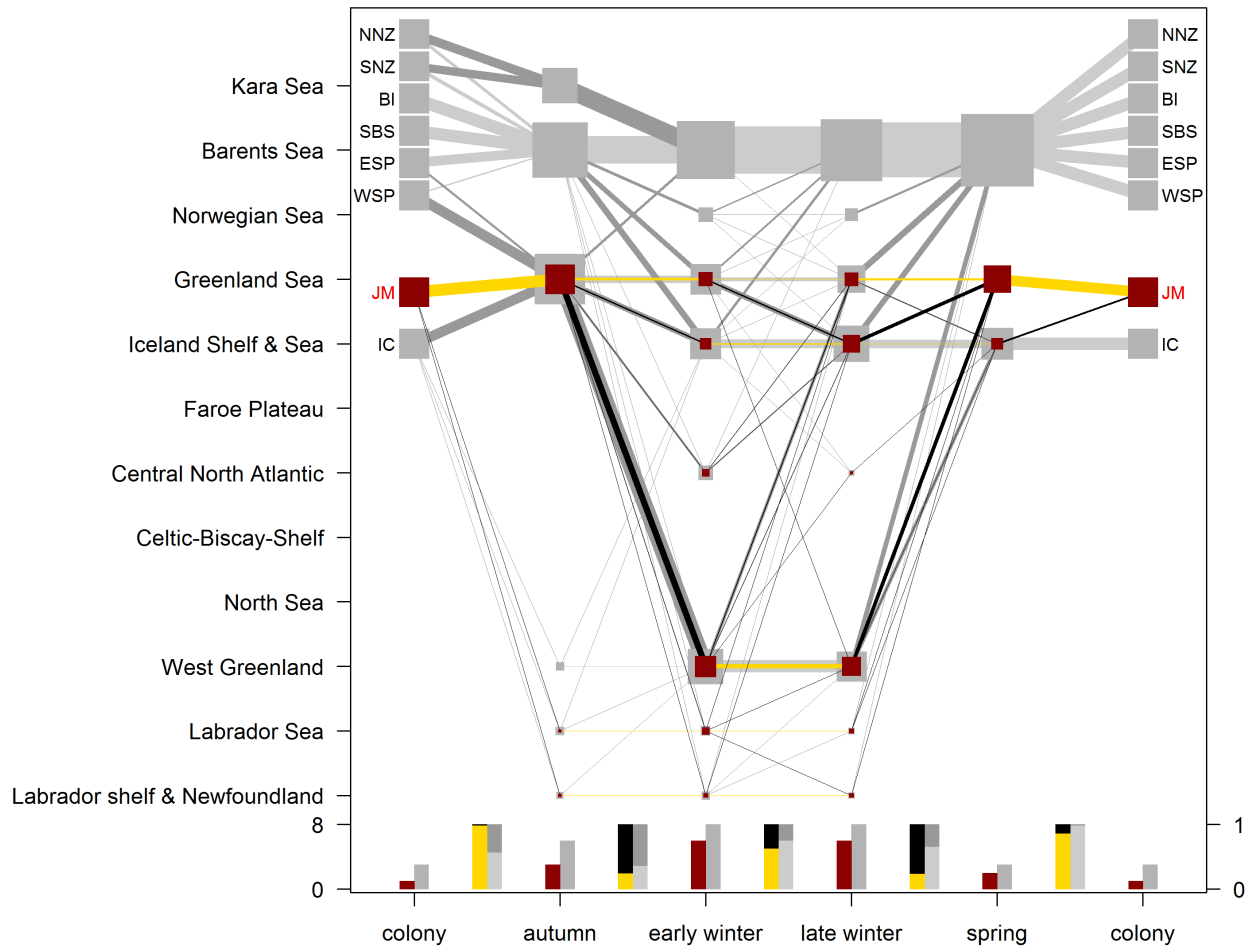
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30 **Figure S3.8.** Common guillemots, Bjørnøya



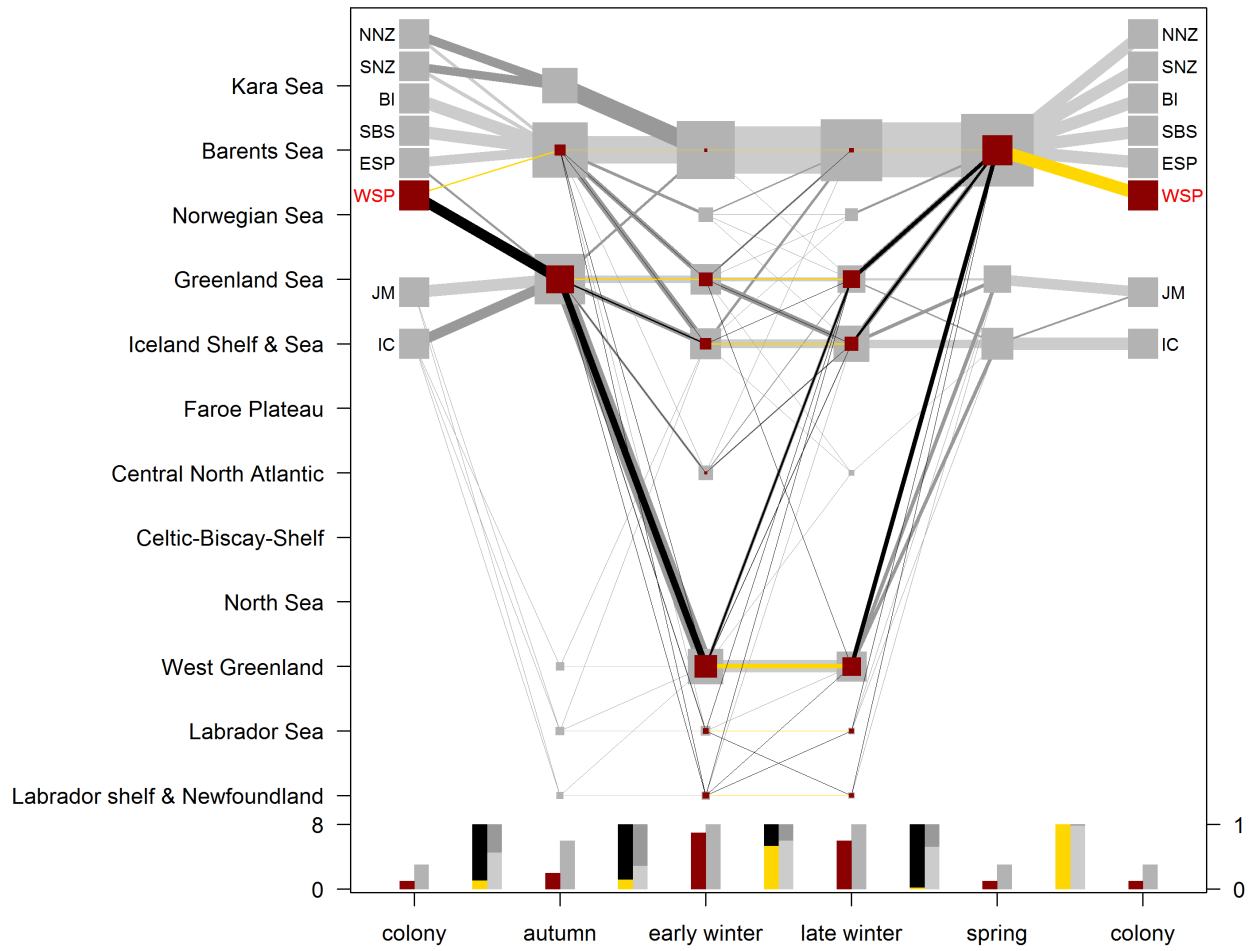
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32 **Figure S3.9.** Brunnich's guillemots, North-East Iceland (Grimsey, Langanes)



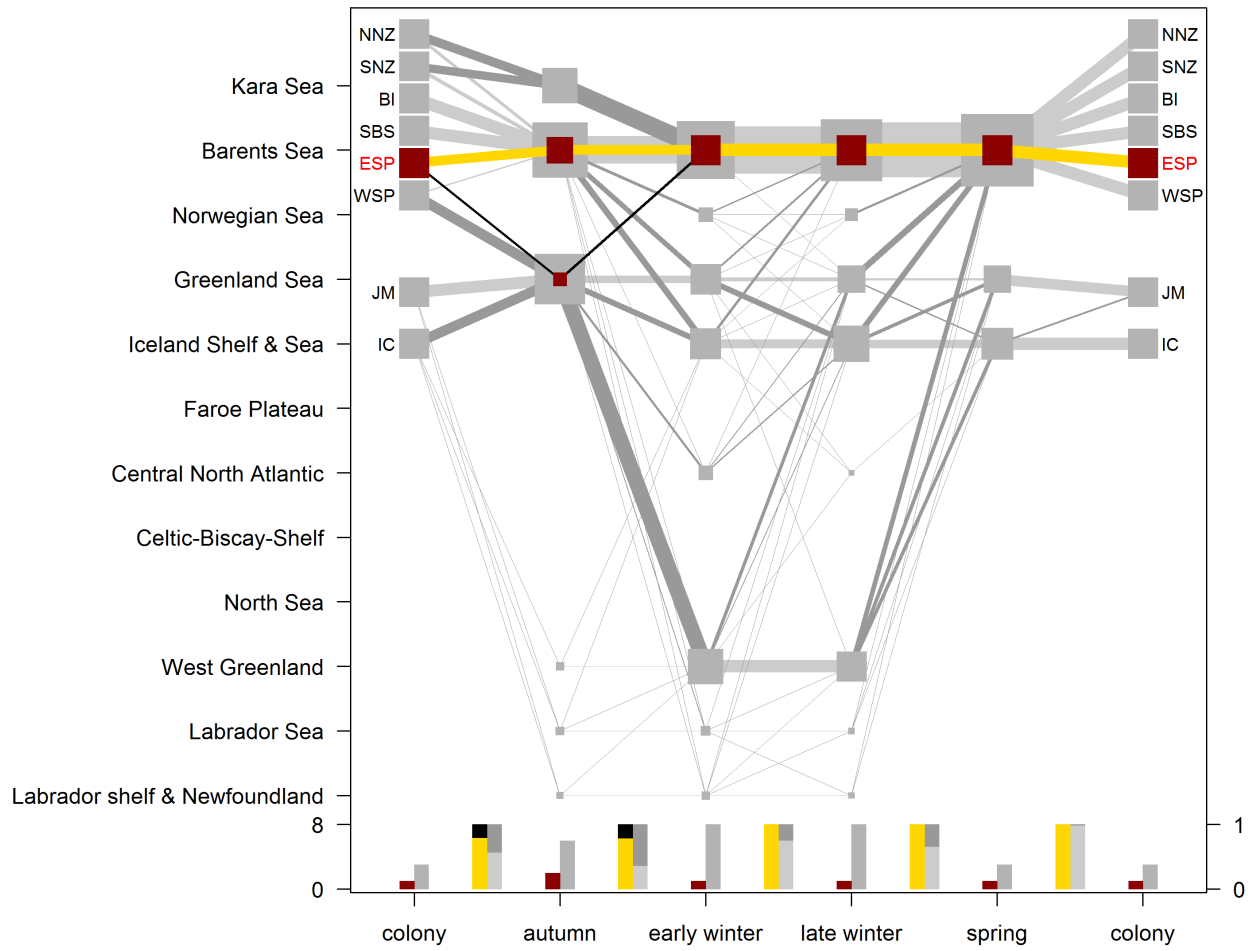
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34 **Figure S3.10.** Brünnich's guillemots, Jan Mayen



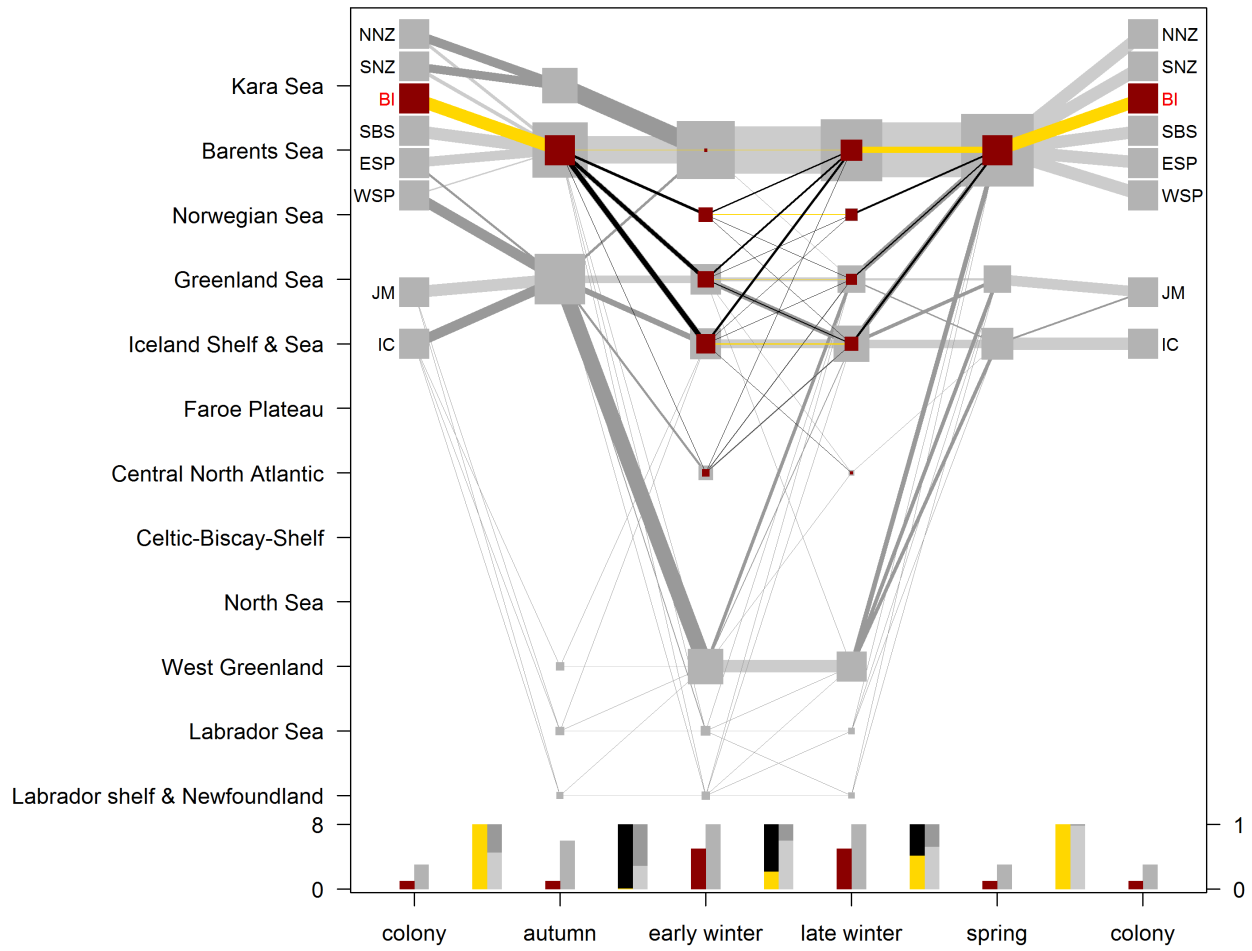
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36 **Figure S3.11.** Brünnich's guillemots, Western Spitsbergen (Diabas, Ossian Sarsfjellet and Amfifjellet)



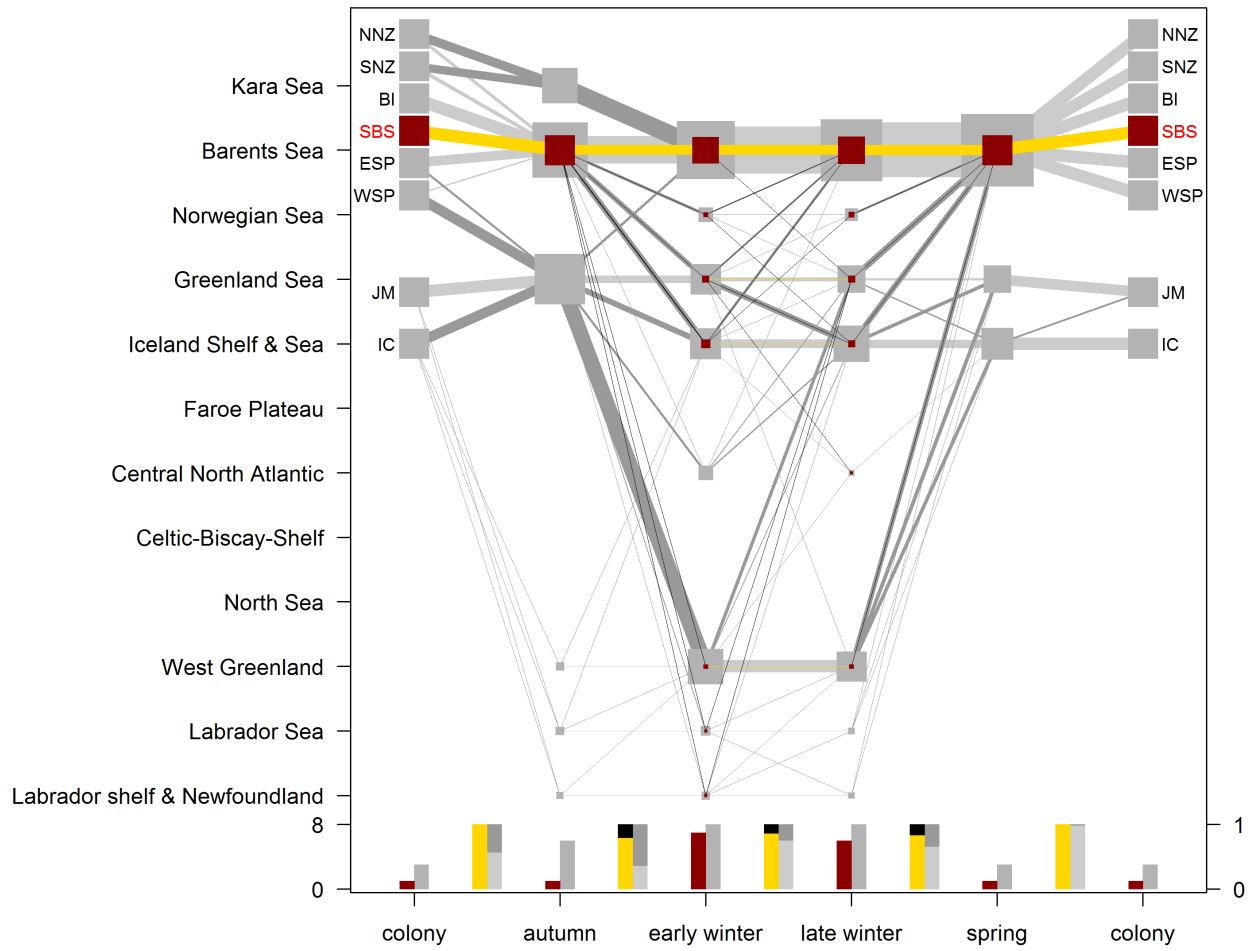
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38 **Figure S3.12.** Brünnich's guillemots, Eastern Spitsbergen (Alkefjellet)



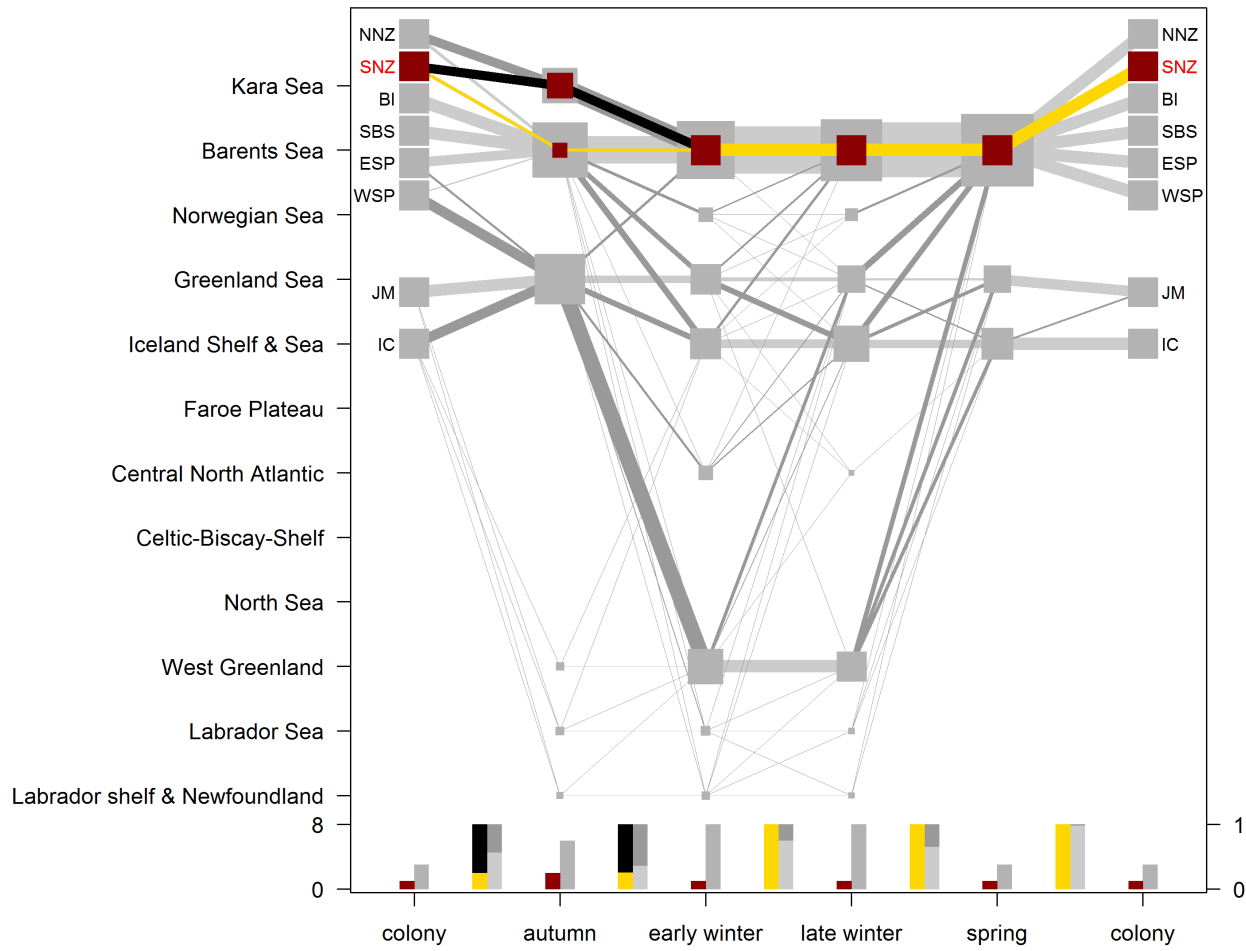
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40 **Figure S3.13.** Brünnich's guillemots, Bjørnøya



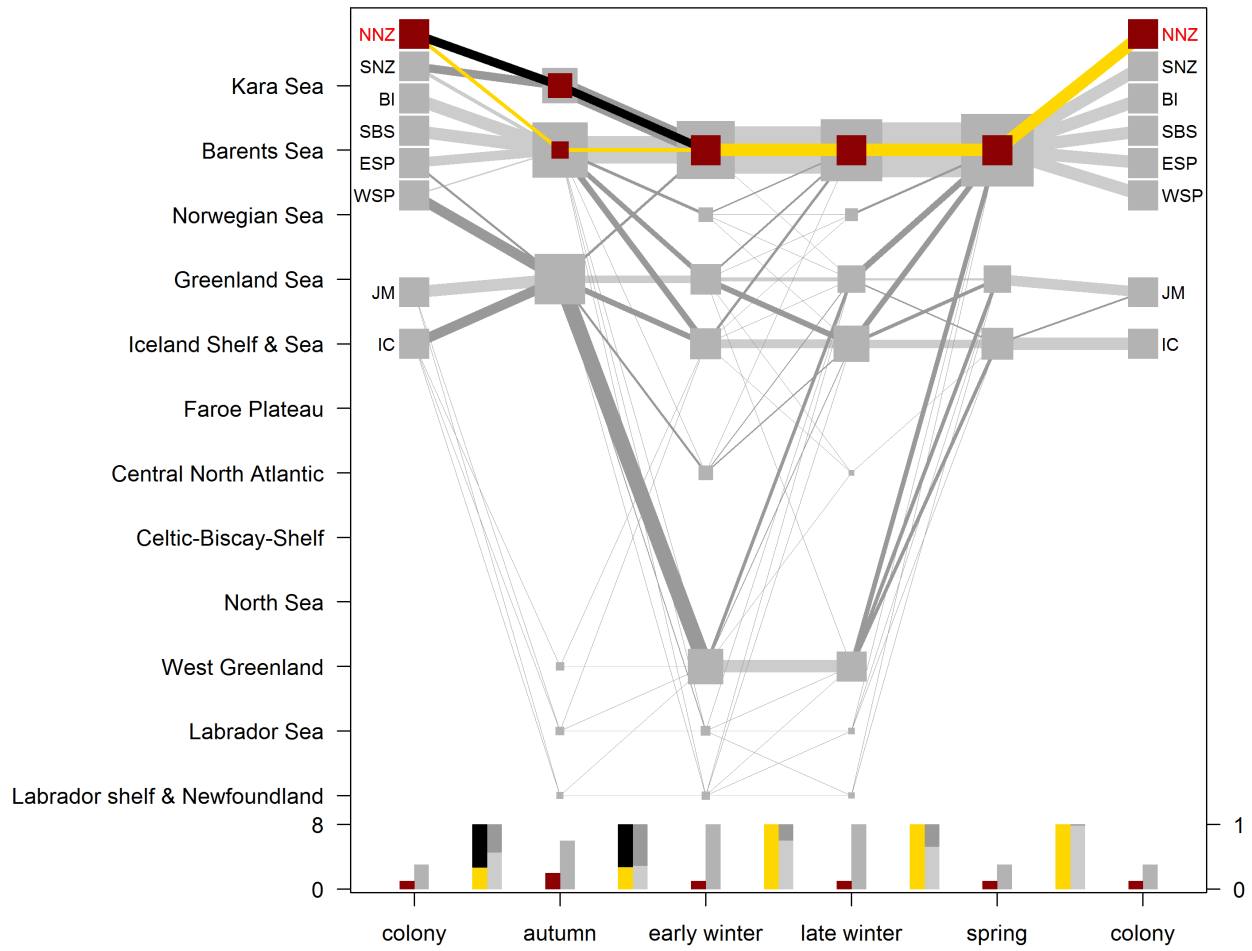
41

42 **Figure S3.14.** Brünnich's guillemots, Southern Barents Sea (Hornøya and Cape Gorodetskiy)



43

44 **Figure S3.15.** Brünnich's guillemots, Southern Novaya Zemlya (Cape Sakhanin)



45

46 **Figure S3.16.** Brünnich's guillemots, Northern Novaya Zemlya (Oranskie island)