# Results East Atlantic Flyway monitoring

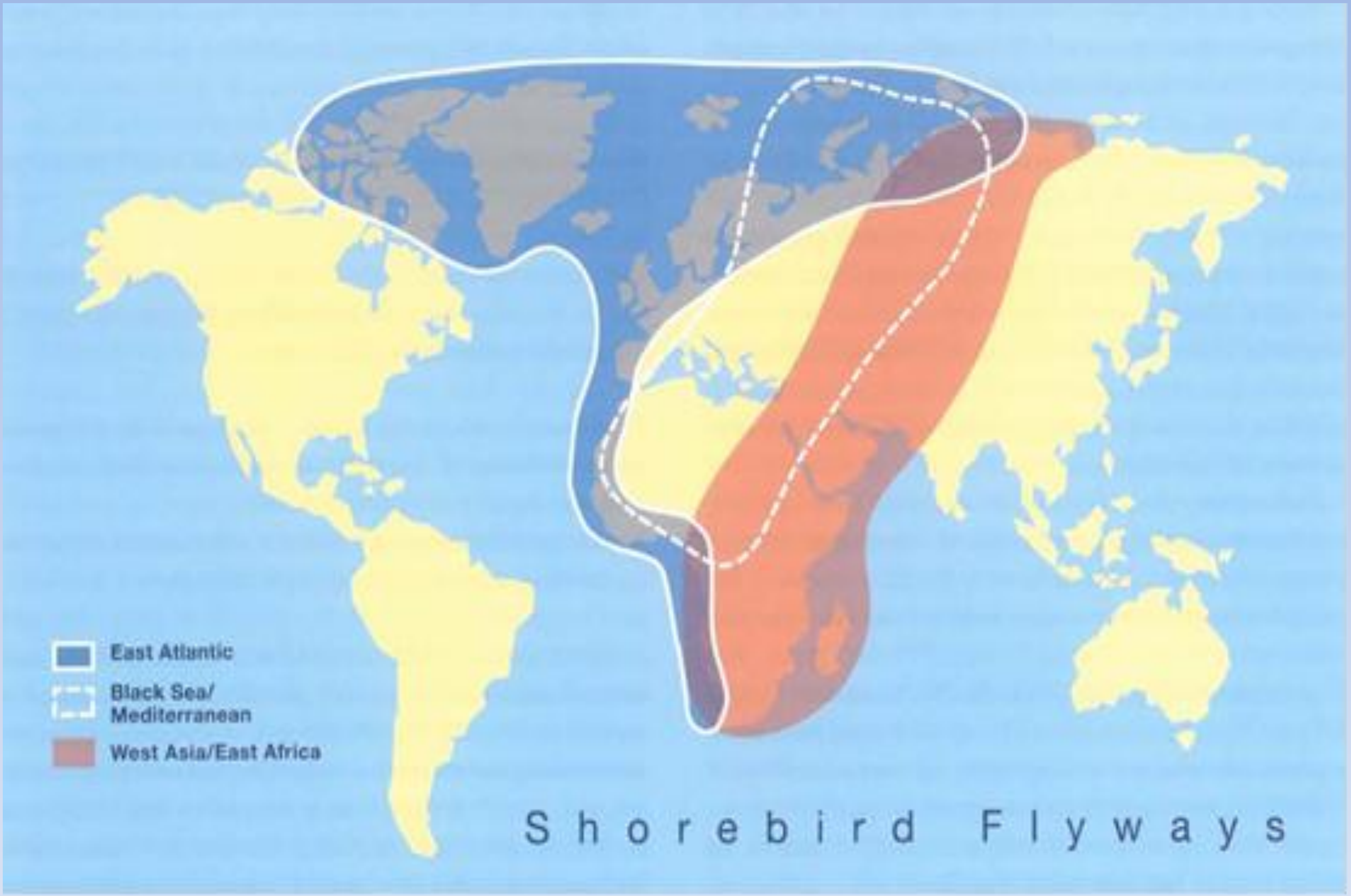
## Cooperation between WSFI, Wetlands International, BirdLife International and IWC national coordinators

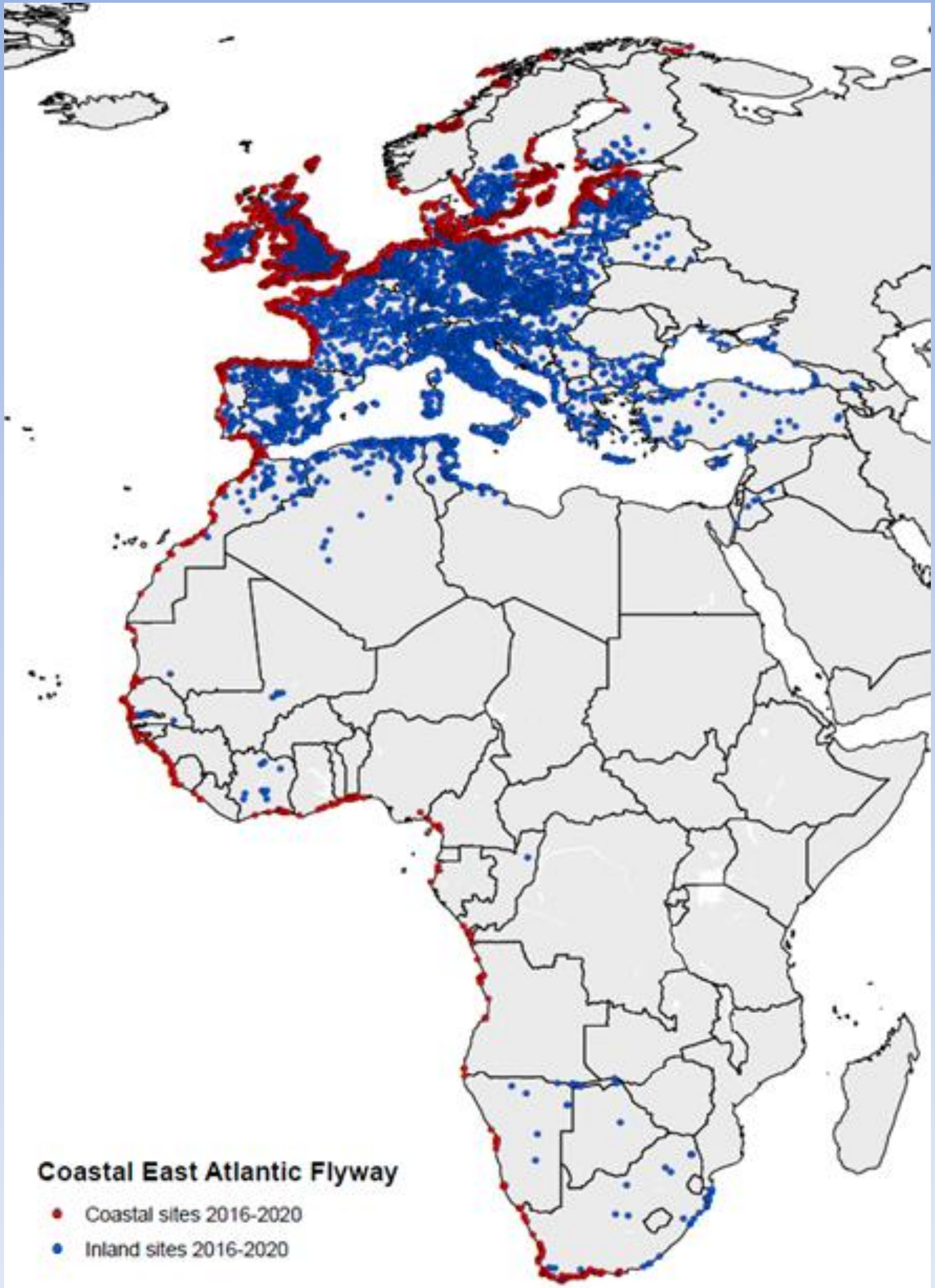
THE WADDEN SEA FLYWAY INITIATIVE

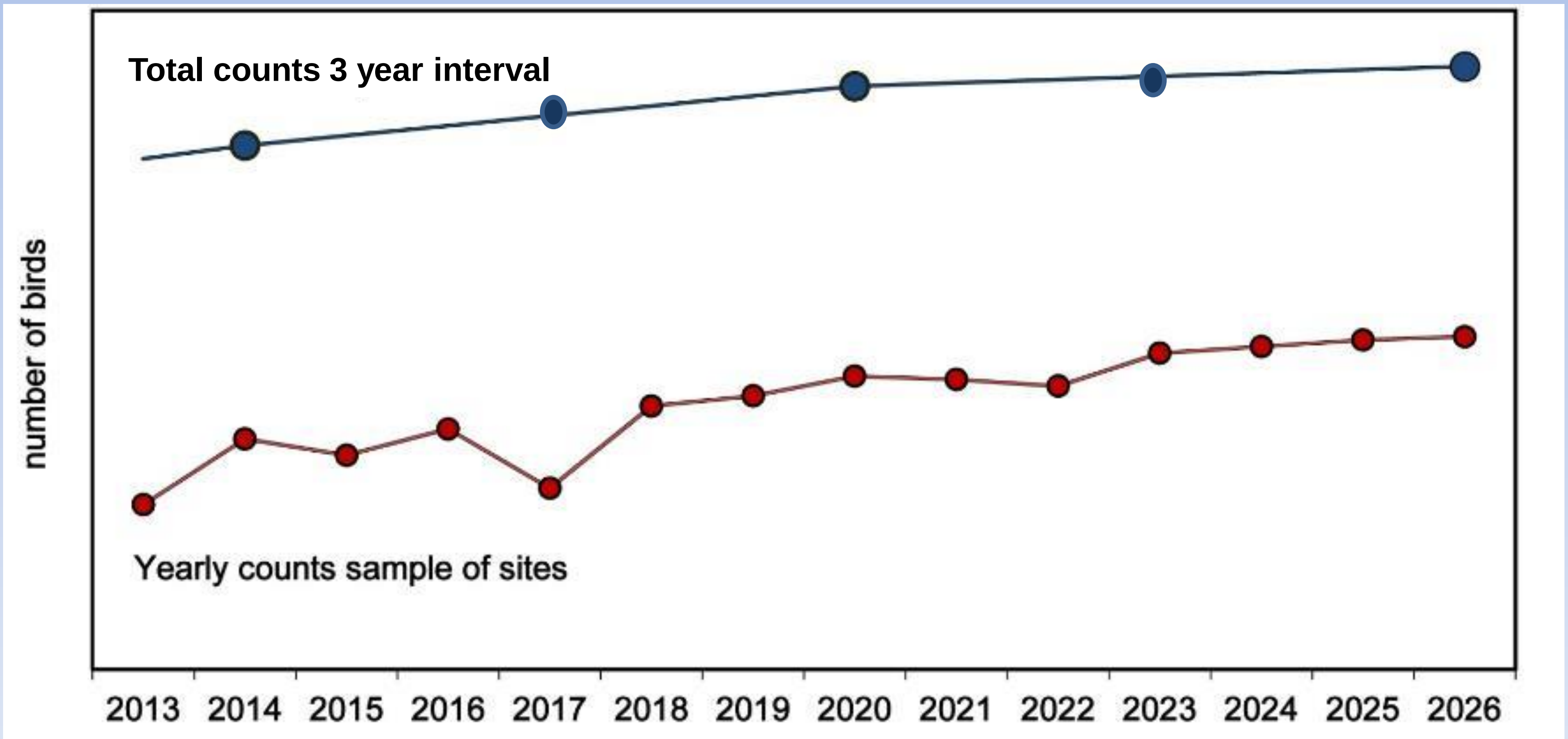
United Nations Educational, Scientific and Cultural Organization

The Wadden Sea World Heritage Site since 2009

WADDEN SEA WORLD HERITAGE

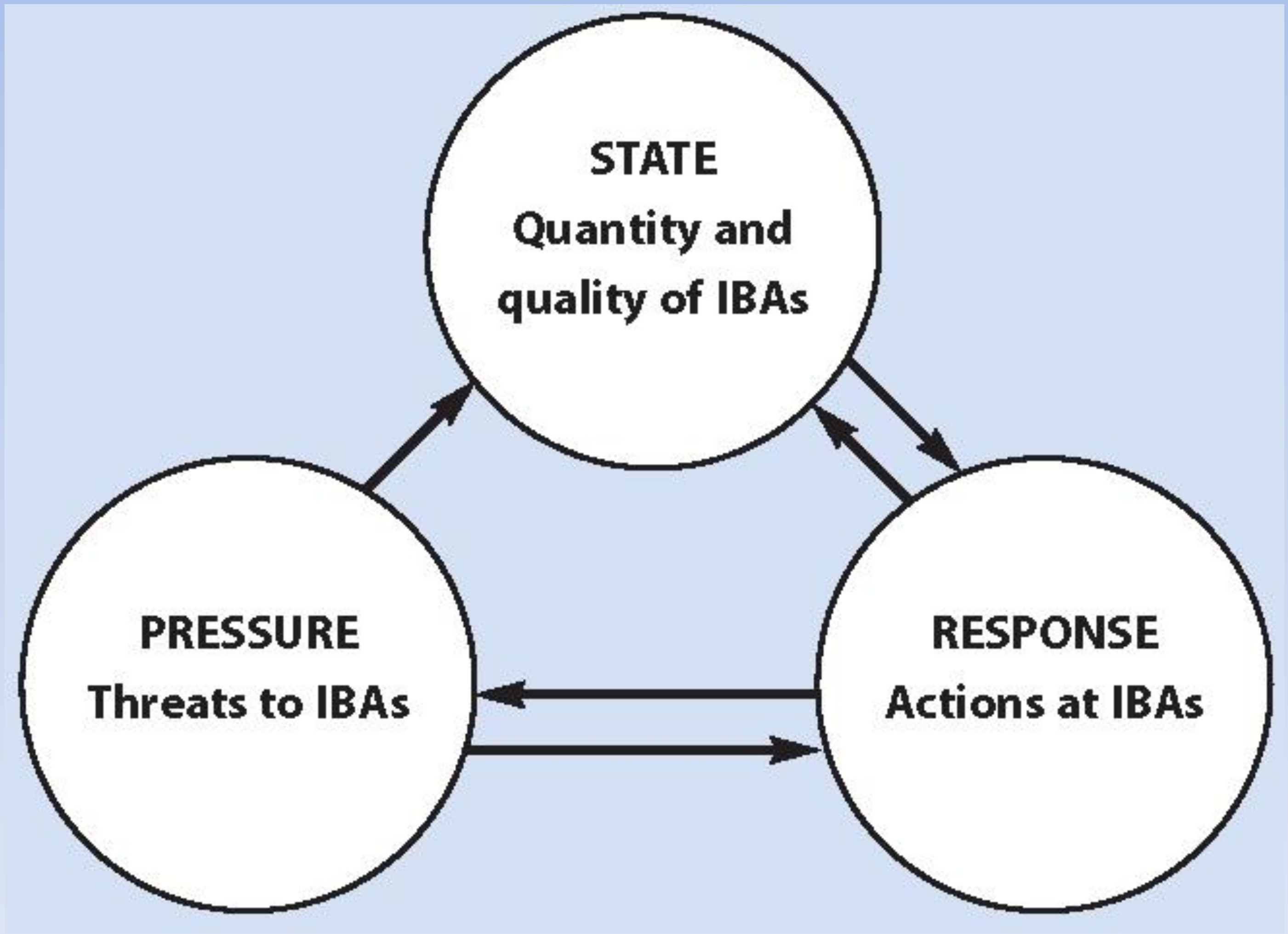

East Atlantic
Black Sea/
Mediterranean
West Asia/East Africa
Shorebird Flyways


Coastal East Atlantic Flyway
Coastal sites 2016-2020
Inland sites 2016-2020



Total counts 3 year interval
number of birds
Yearly counts sample of sites
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026

# Monitoring of pressures and responses at sites




BirdLife International 2008

# Total count 2020

- All countries of East Atlantic flyway with wintering populations

- 37 countries in 2020
- More than 12,000 observers
- 14 million waterbirds counted
- From 155 sites environmental questionaires

Census report with chapters from each country published end of 2020

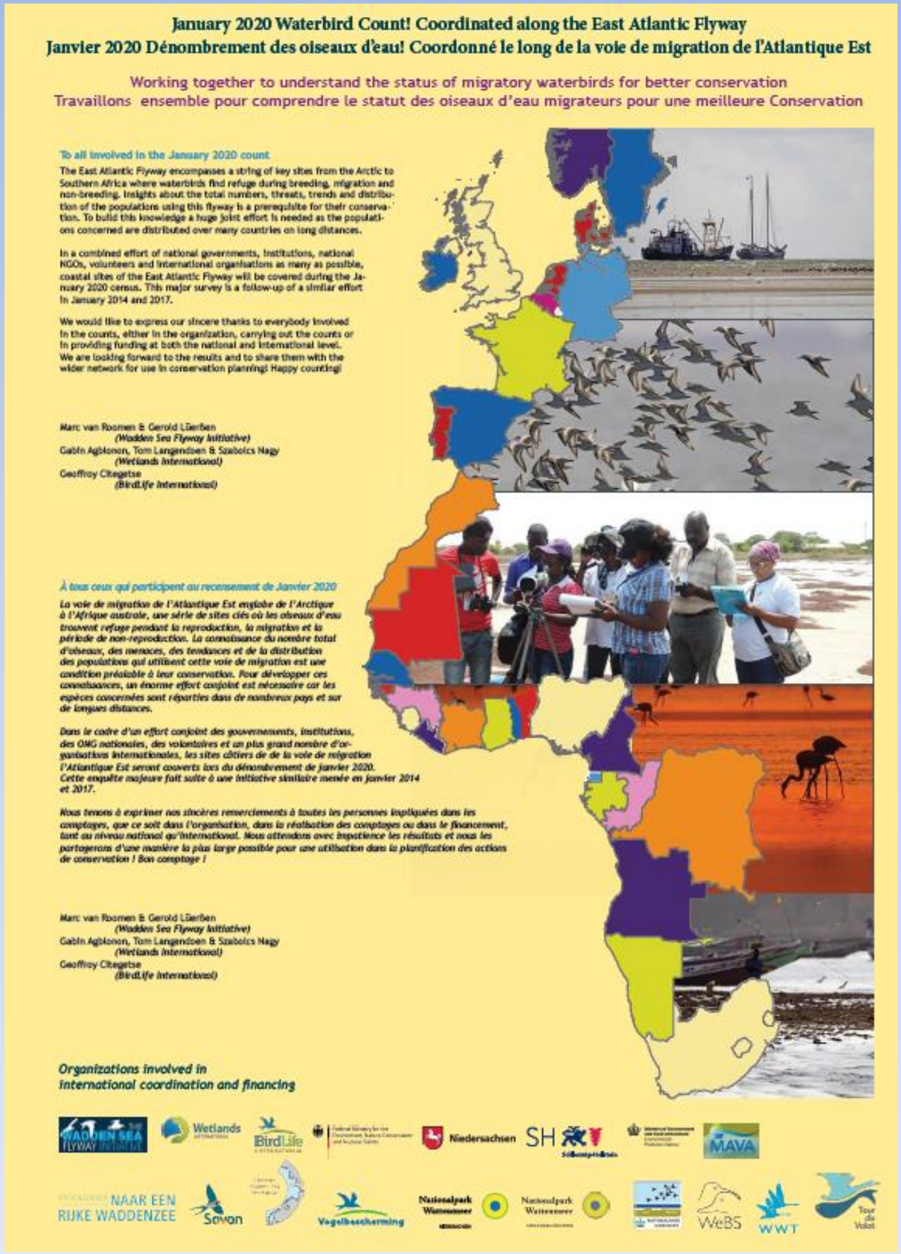


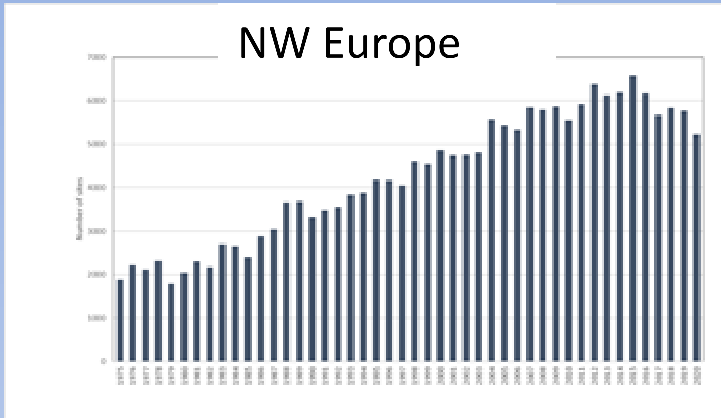
Photo by Svein-Hakon Lorentsen

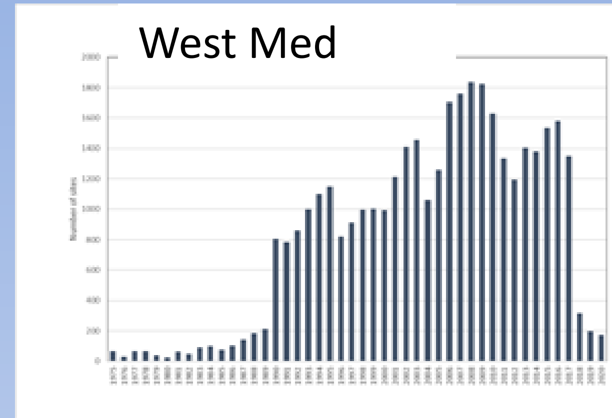

Photo by Joost van Bruggen

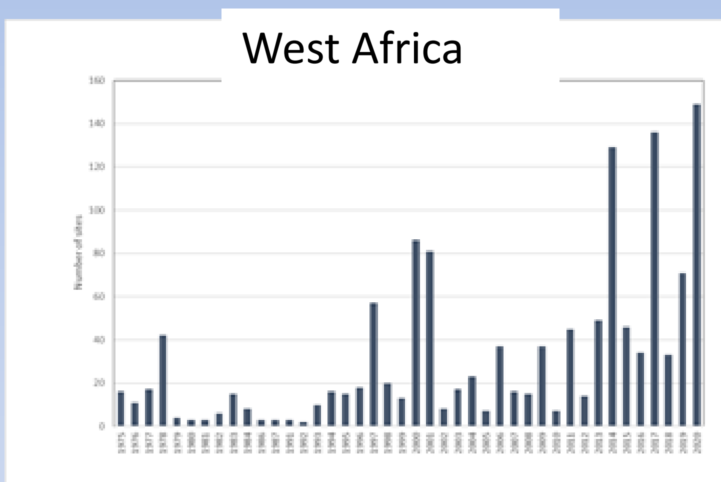
Photo by Hichem azafzan

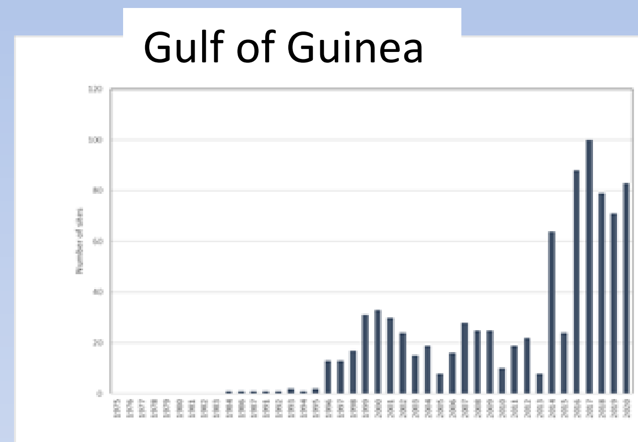
Photo by Afonso Rocha

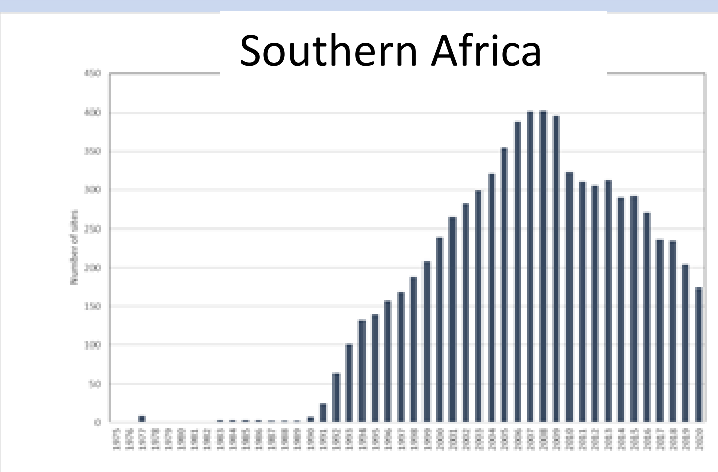
Photo by Jaap van der Waarde


NW Europe

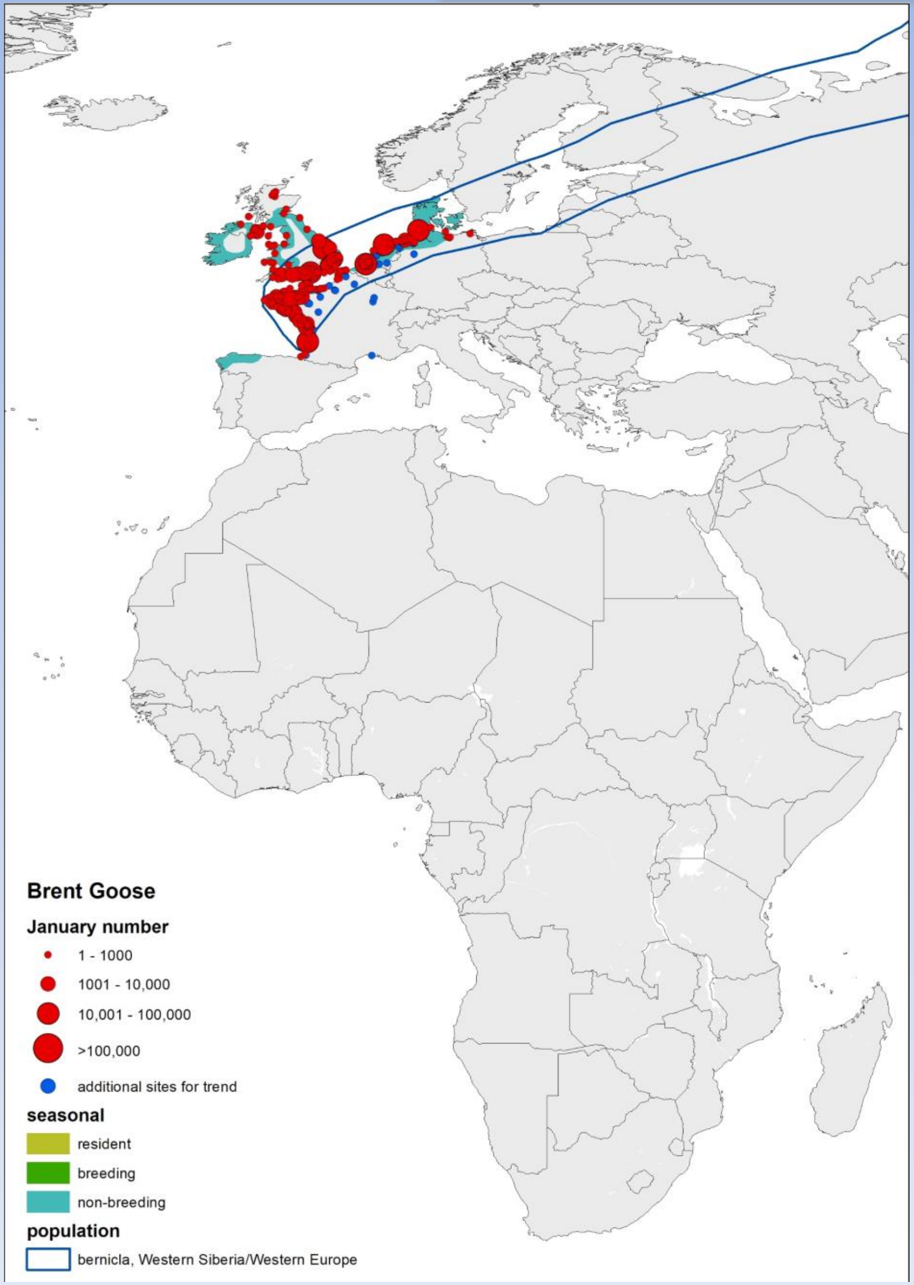

West Med

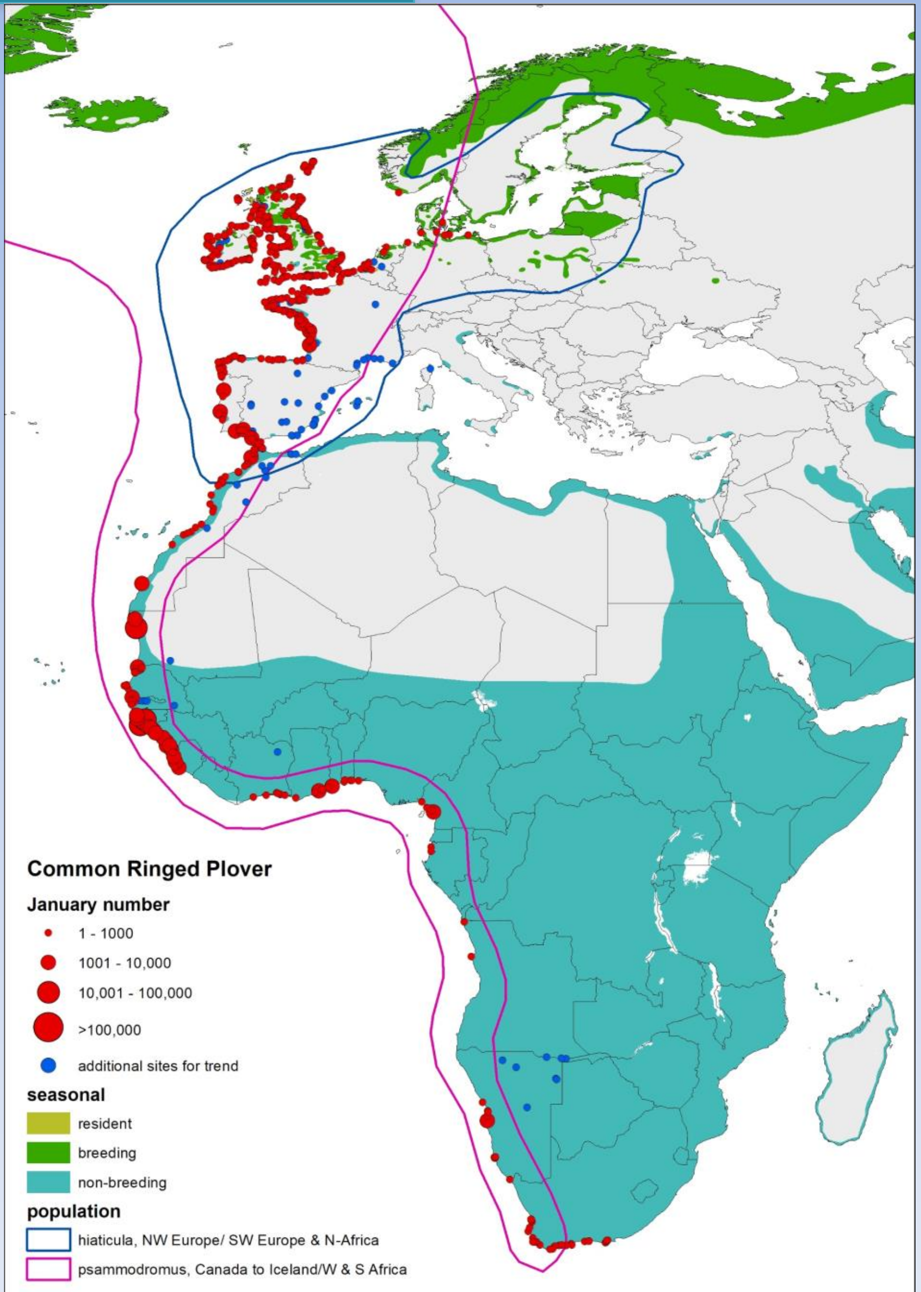

West Africa


Gulf of Guinea


Southern Africa

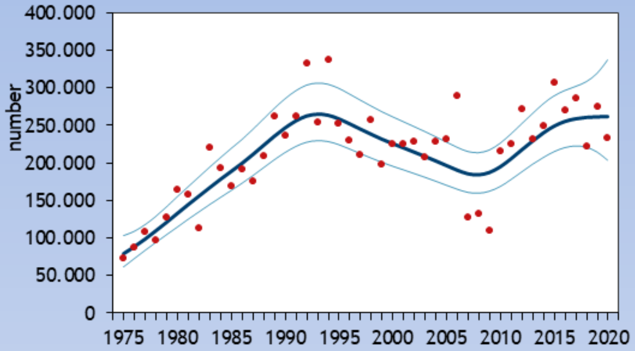
# Distribution



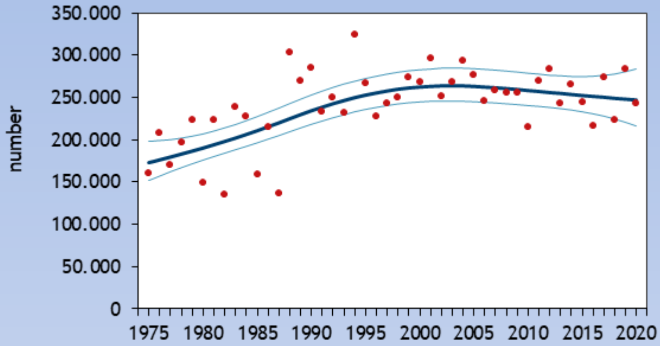



# Examples of trends

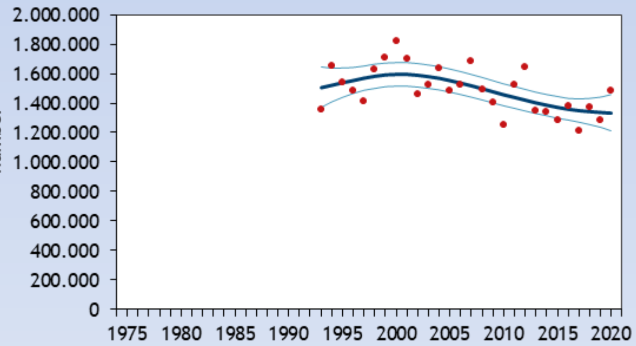
## Brent Goose



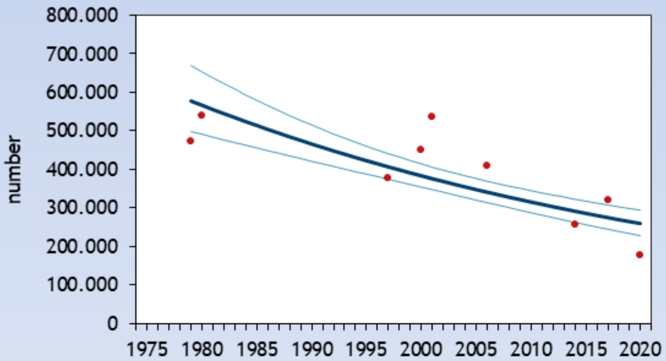

## Common Shelduck



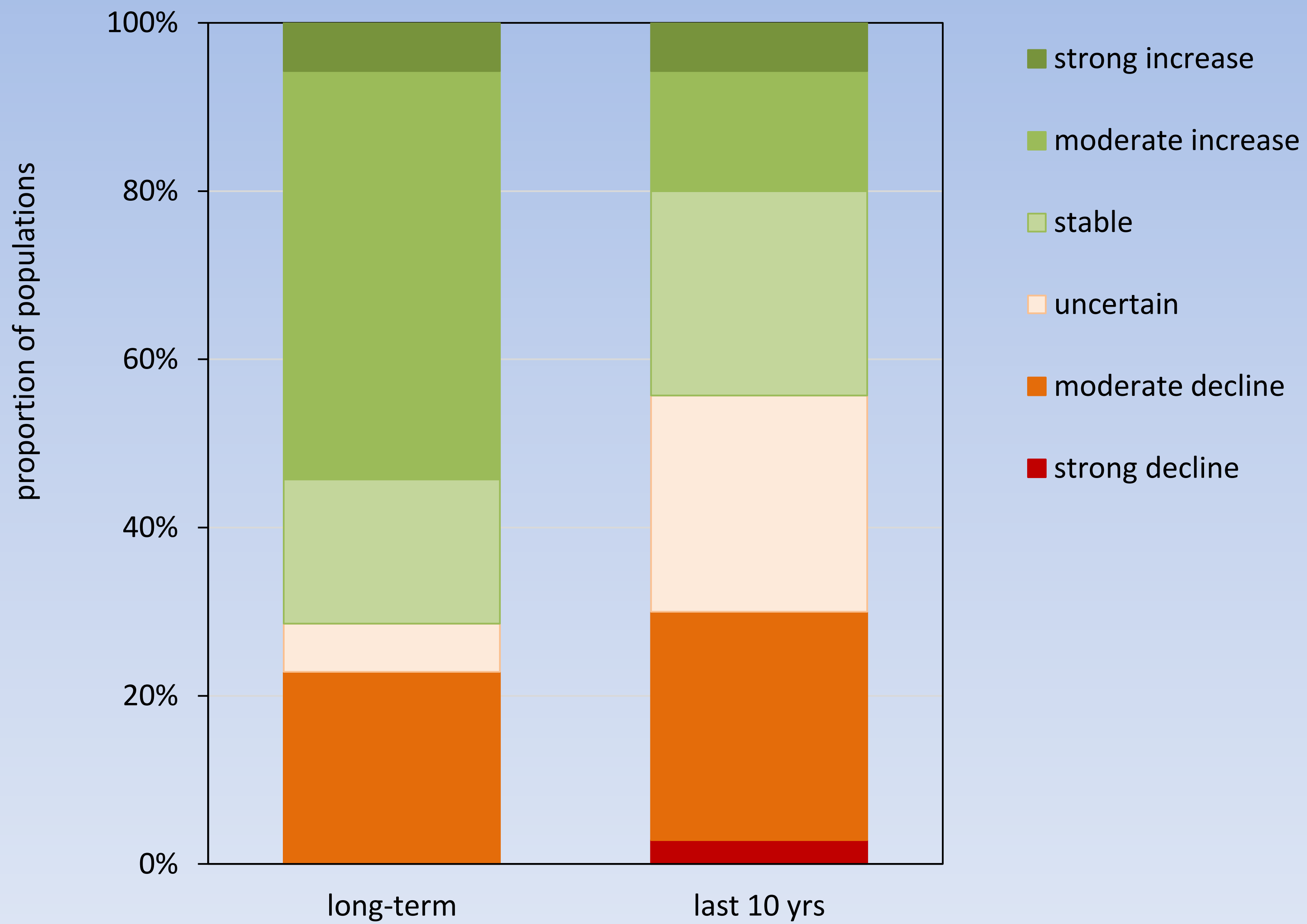

## Black headed Gull



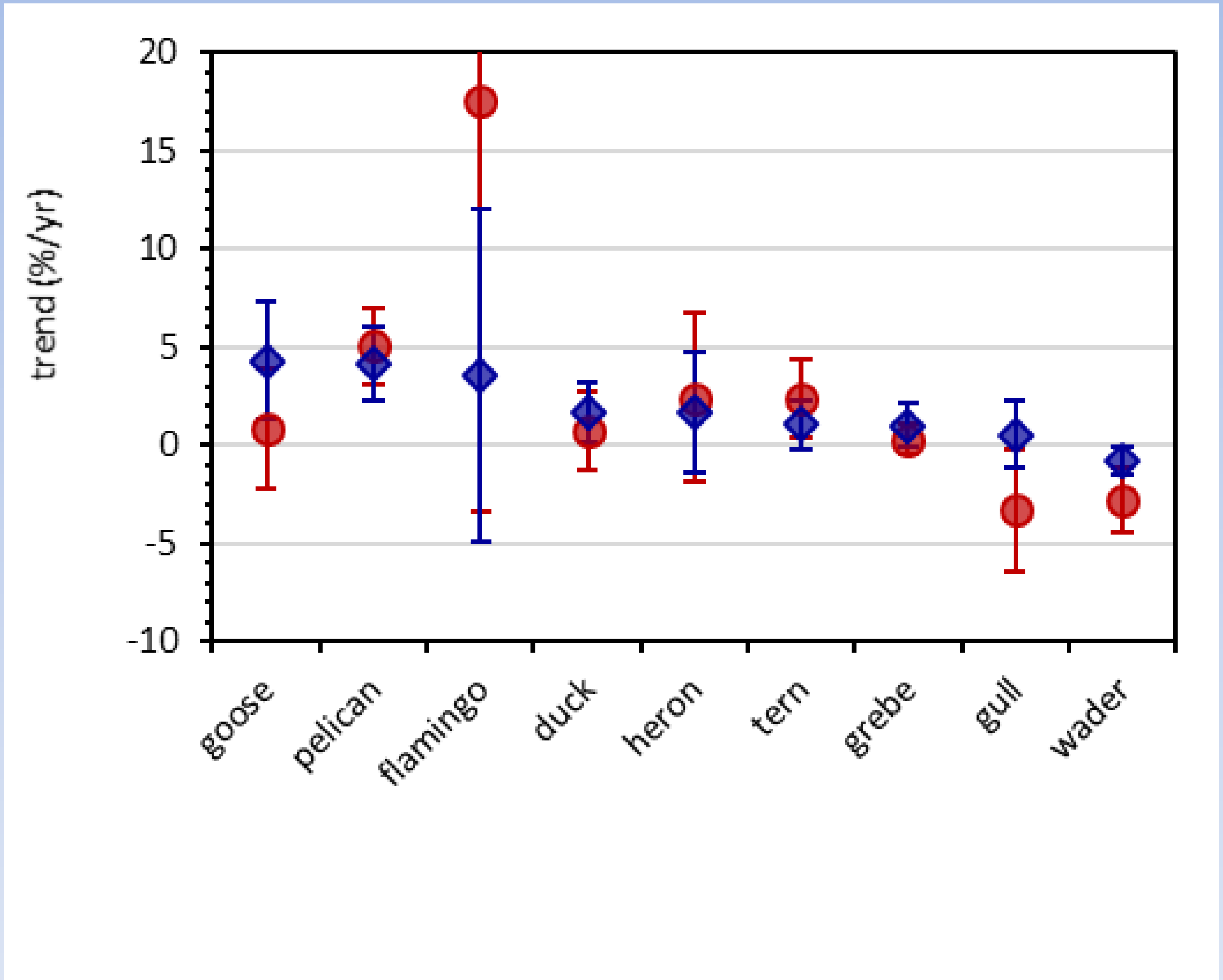

## Red knot canutus



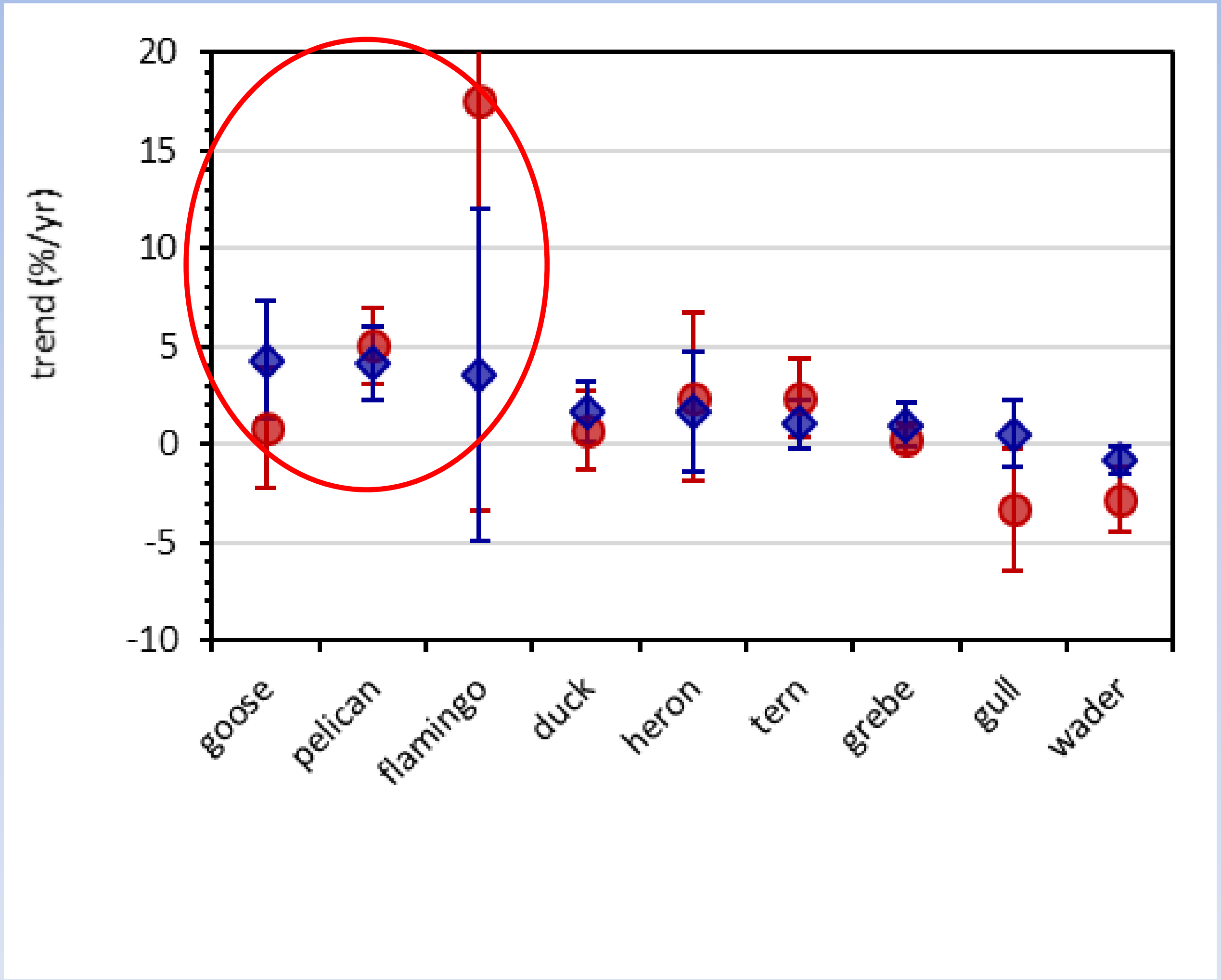
# Summary of trends in the East Atlantic flyway



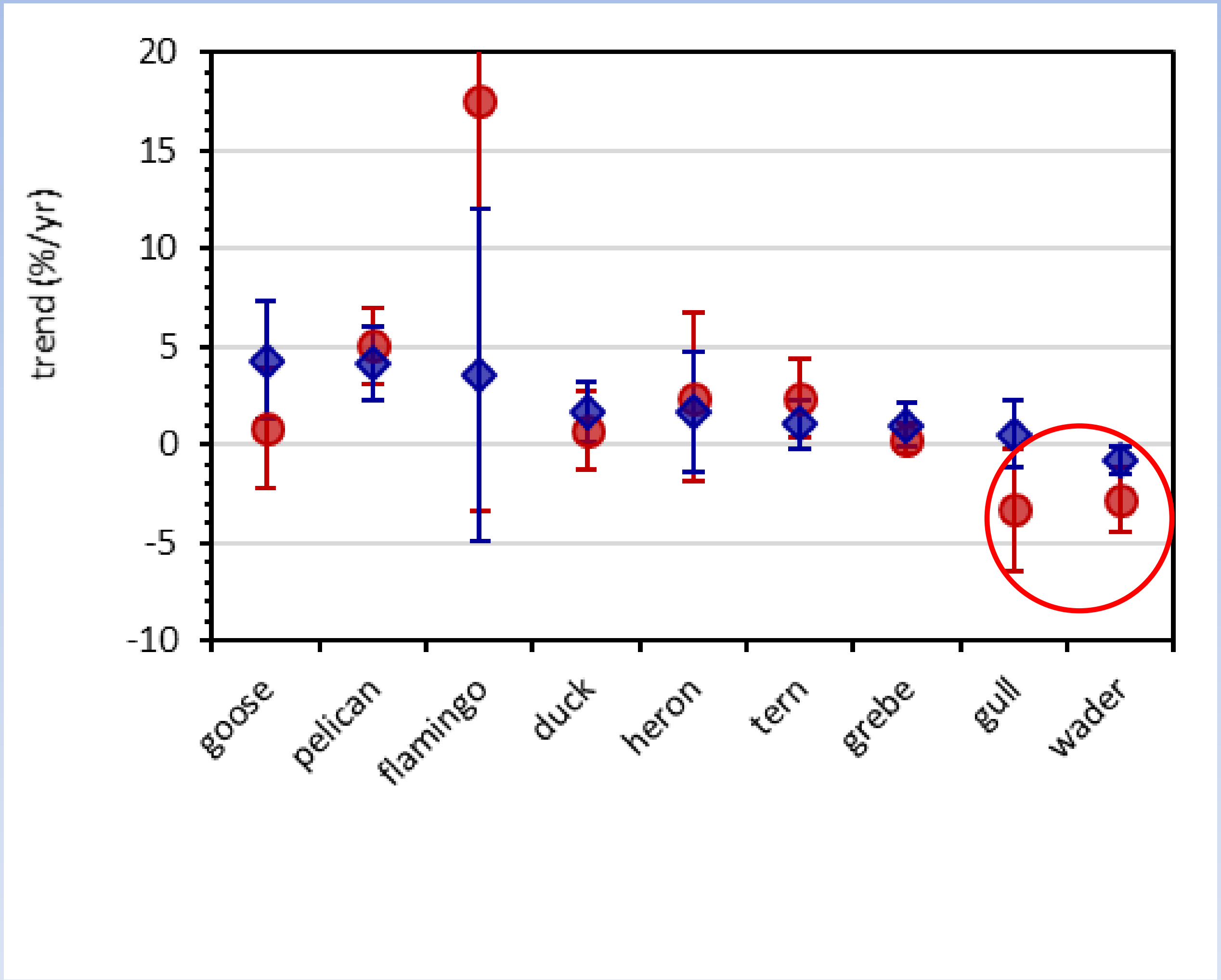
# Trends according to bird family



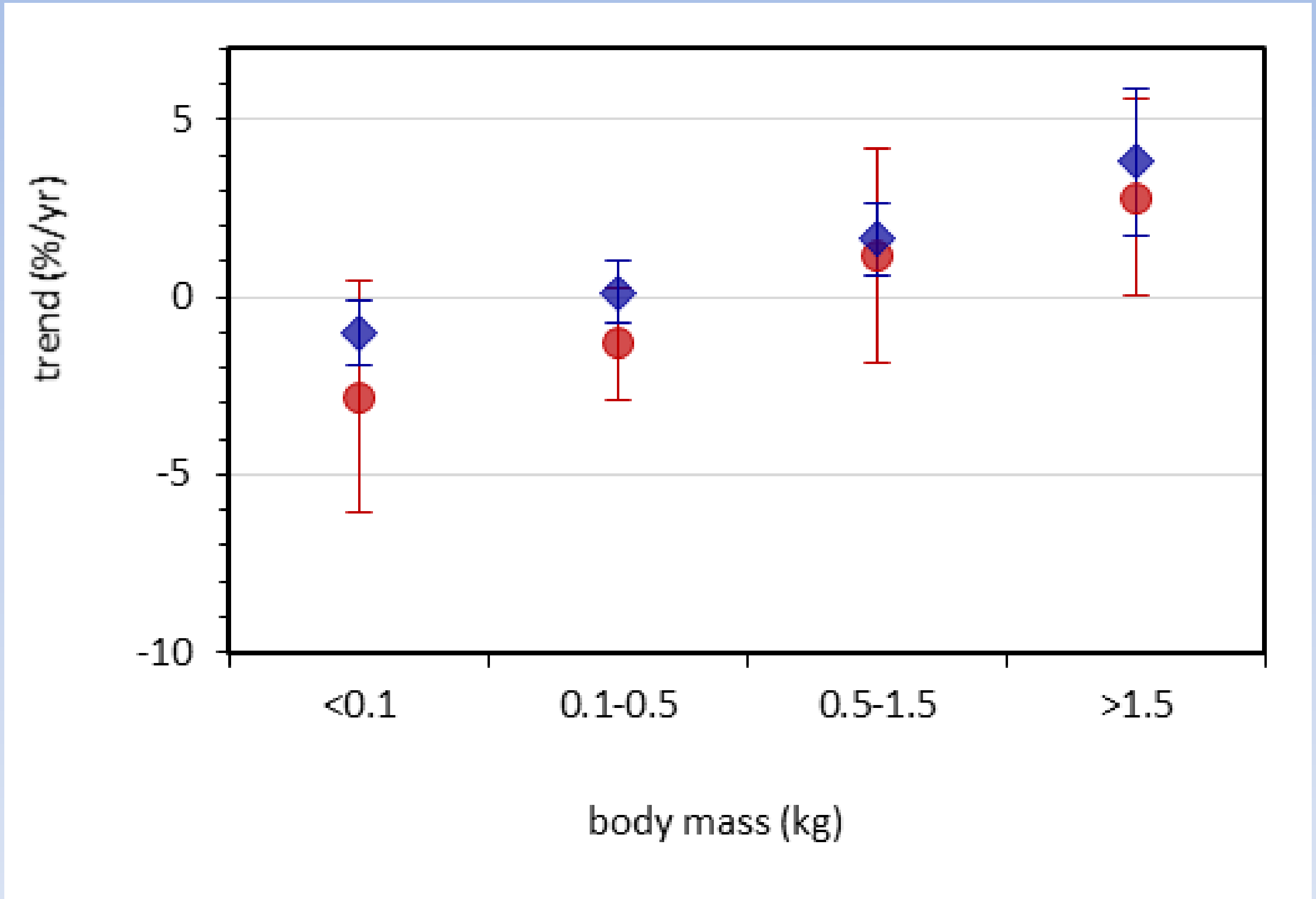
# Trends according to bird family



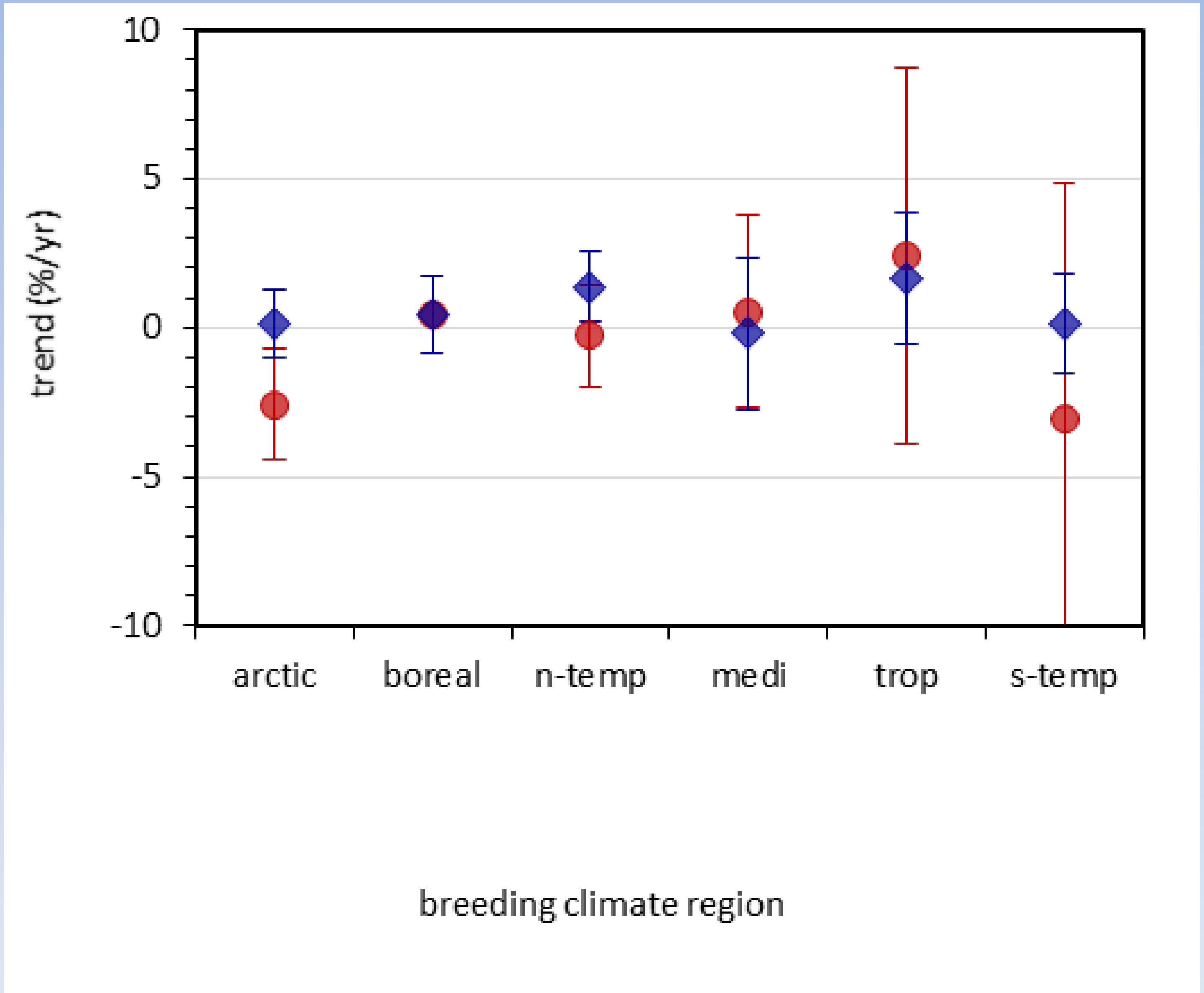
# Trends according to bird family



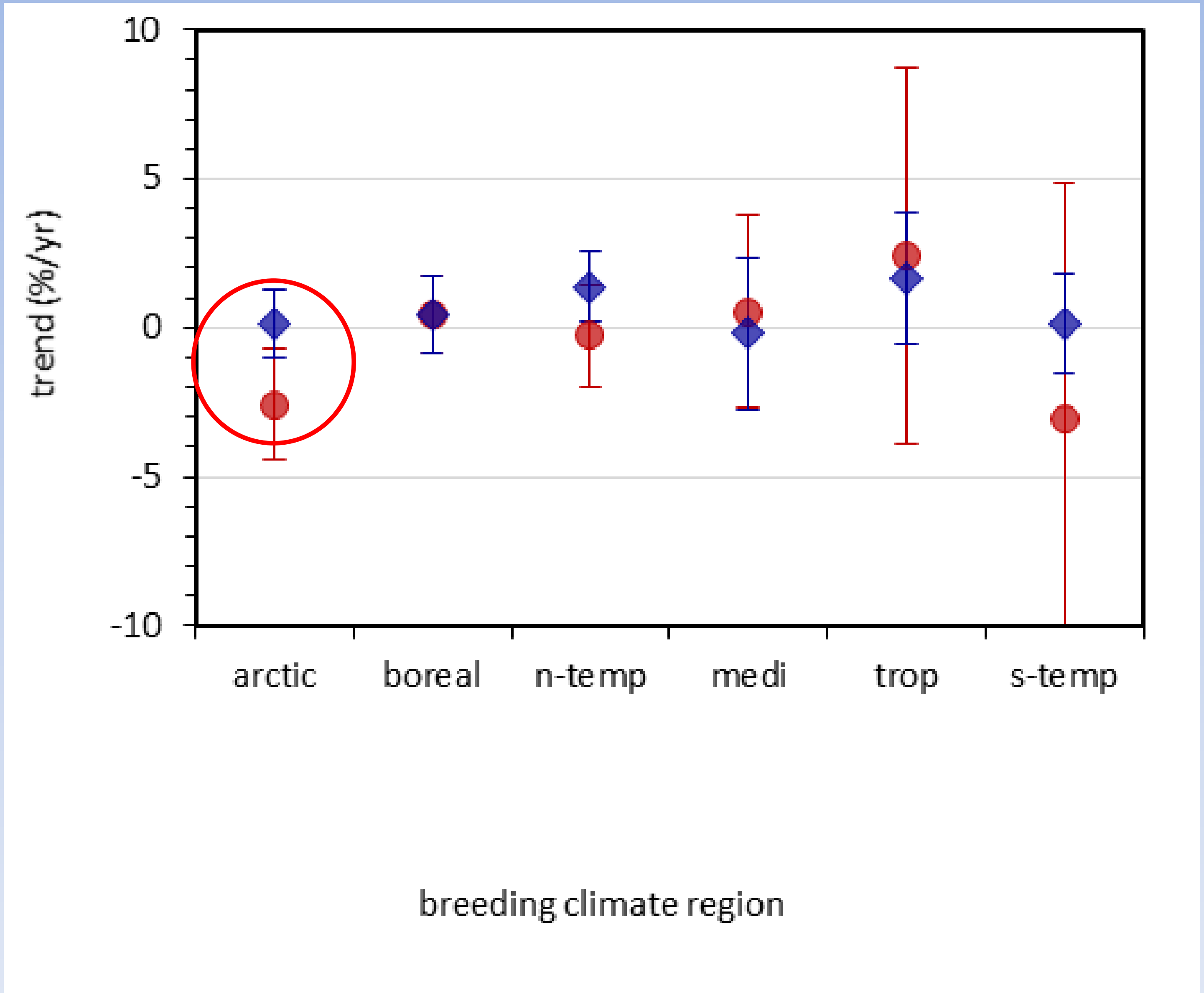
# Trends according to body mass



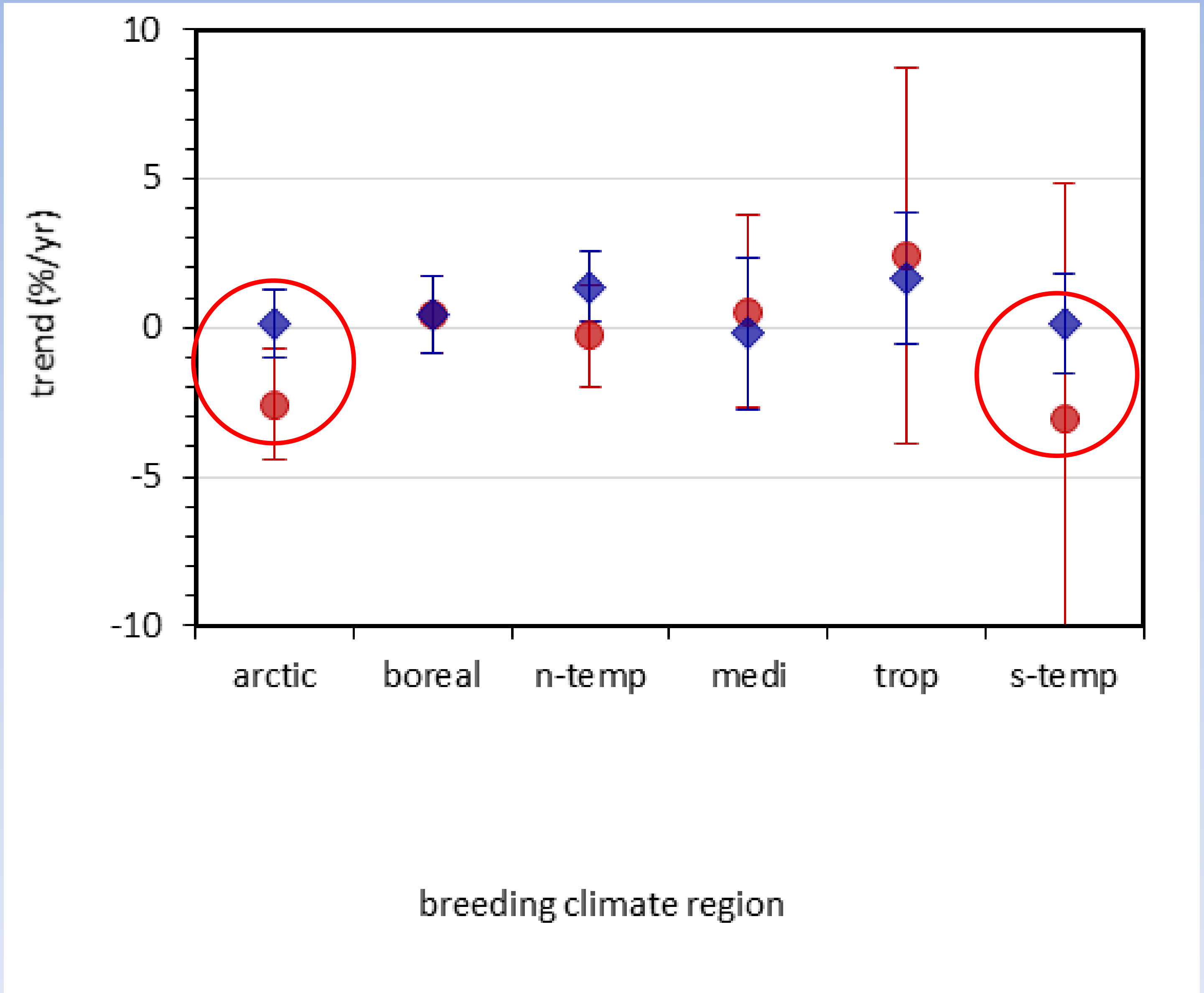
# Trends according to breeding region



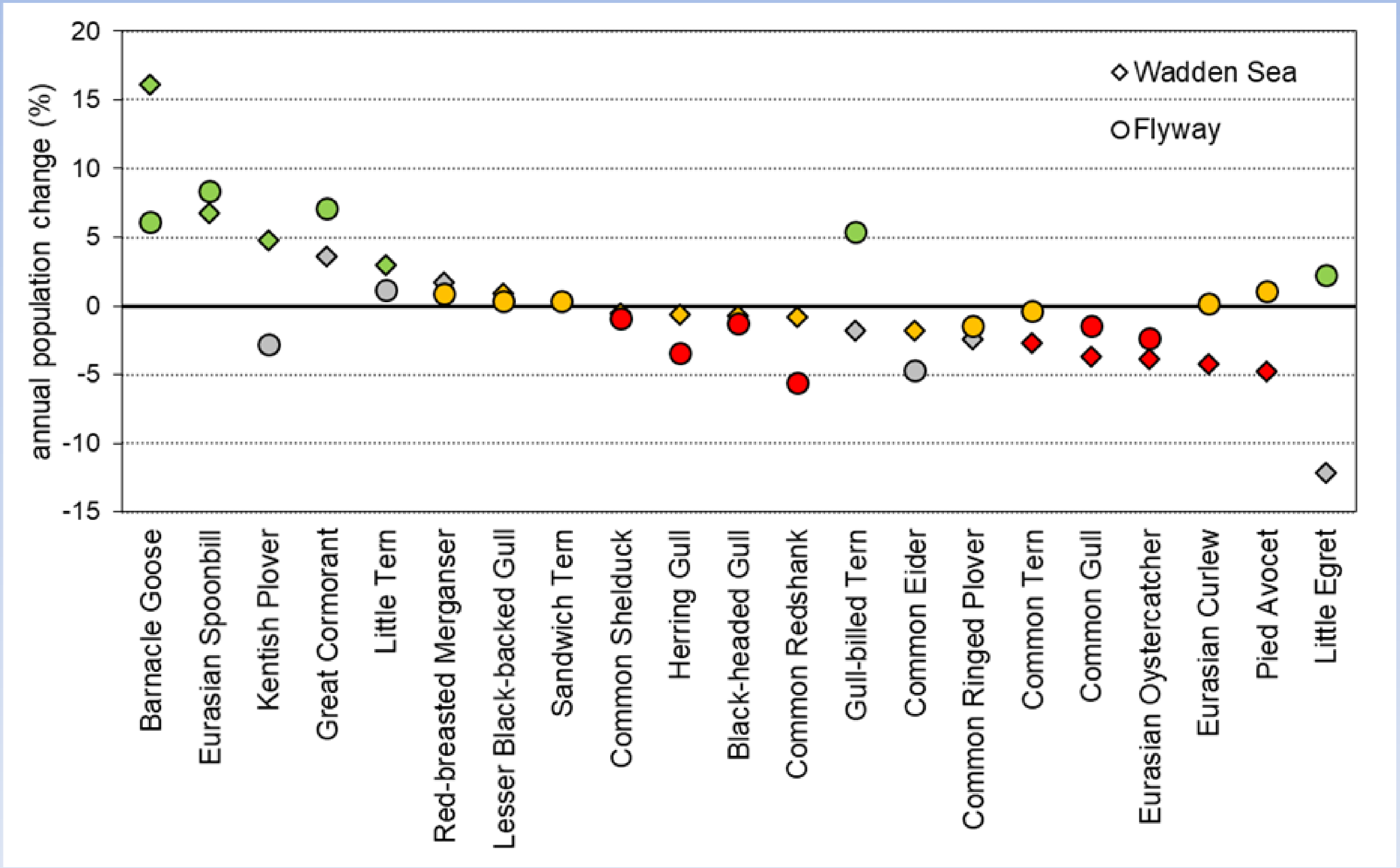
# Trends according to breeding region



# Trends according to breeding region

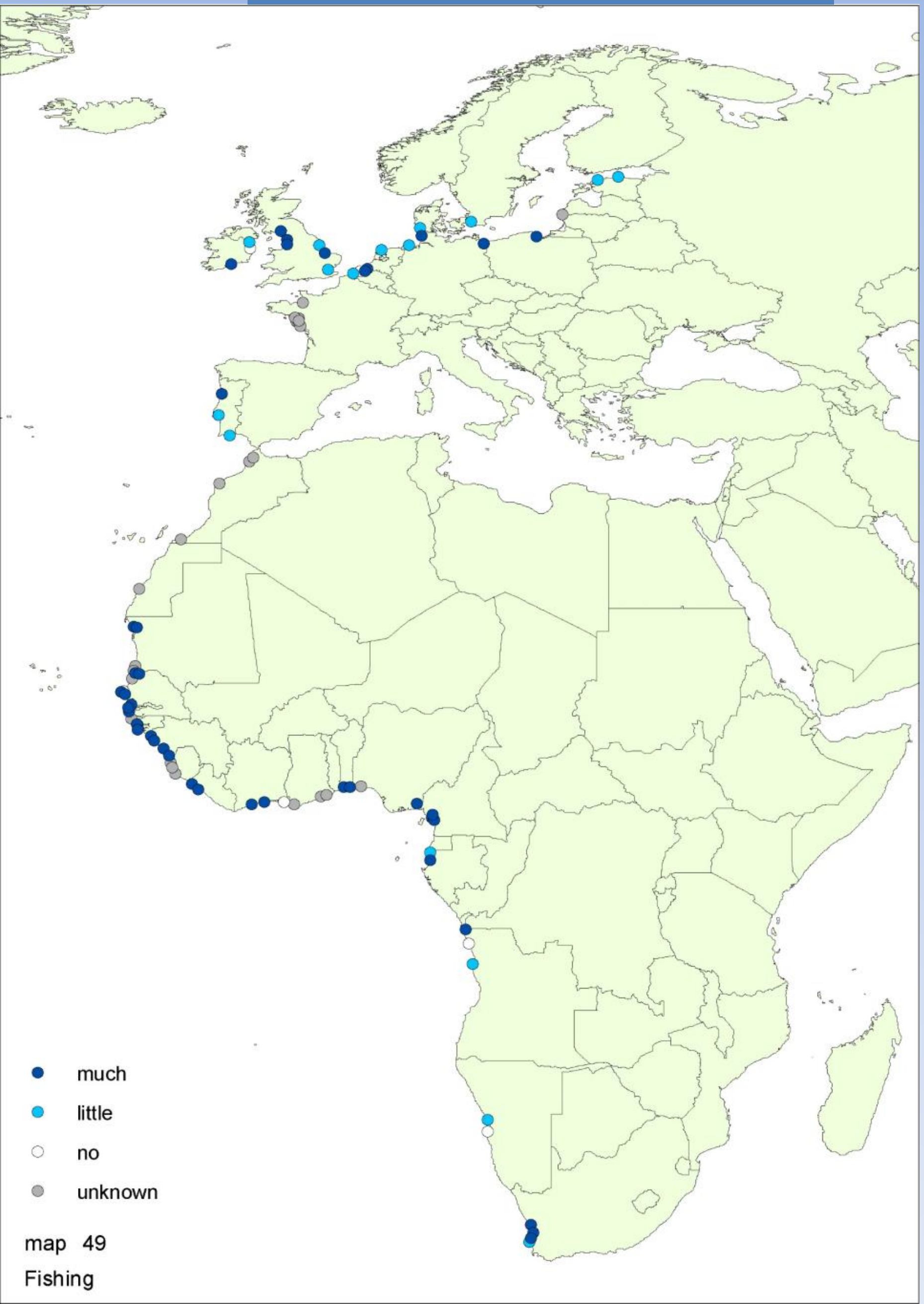


# Comparing local trends with flyway trends

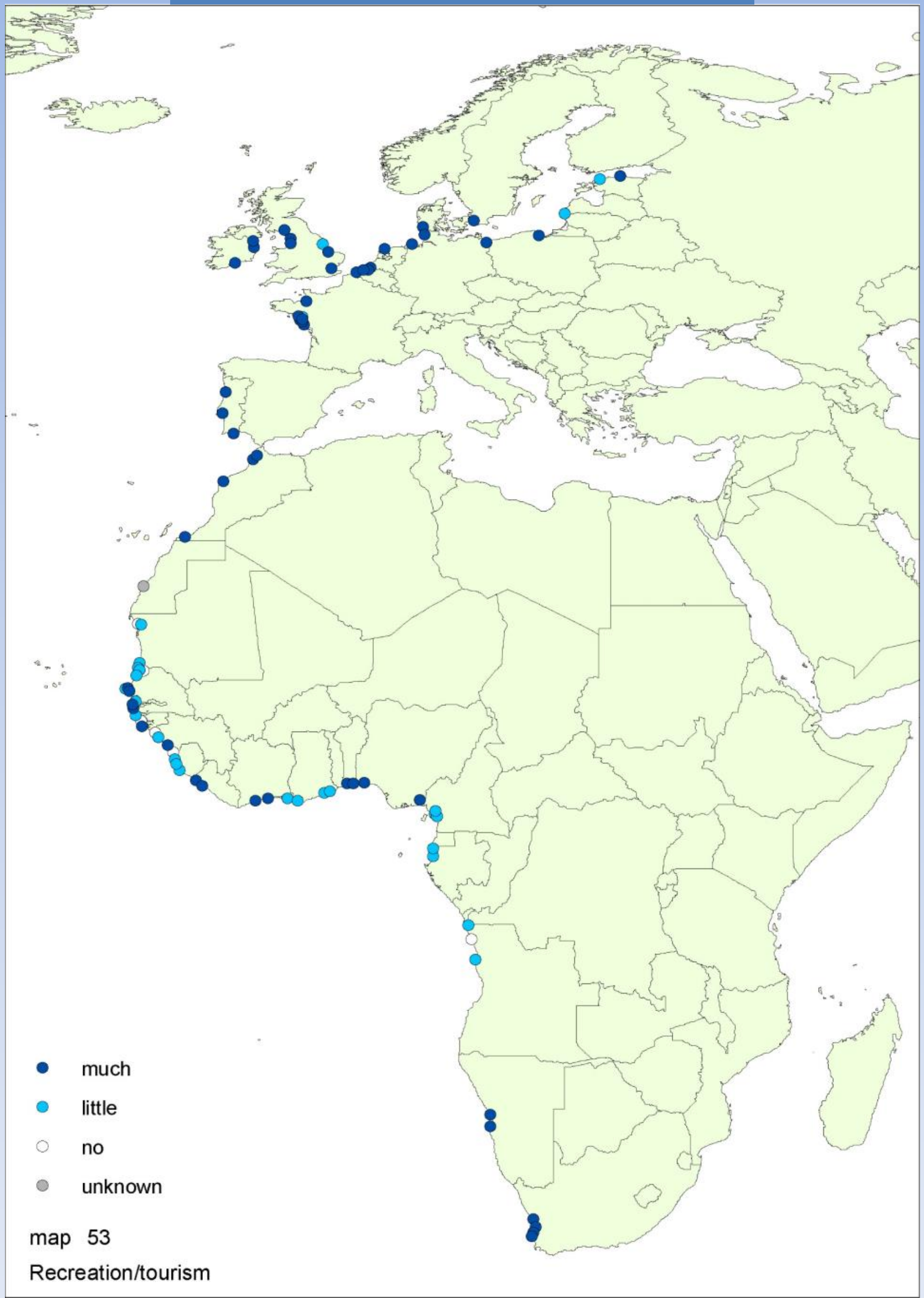




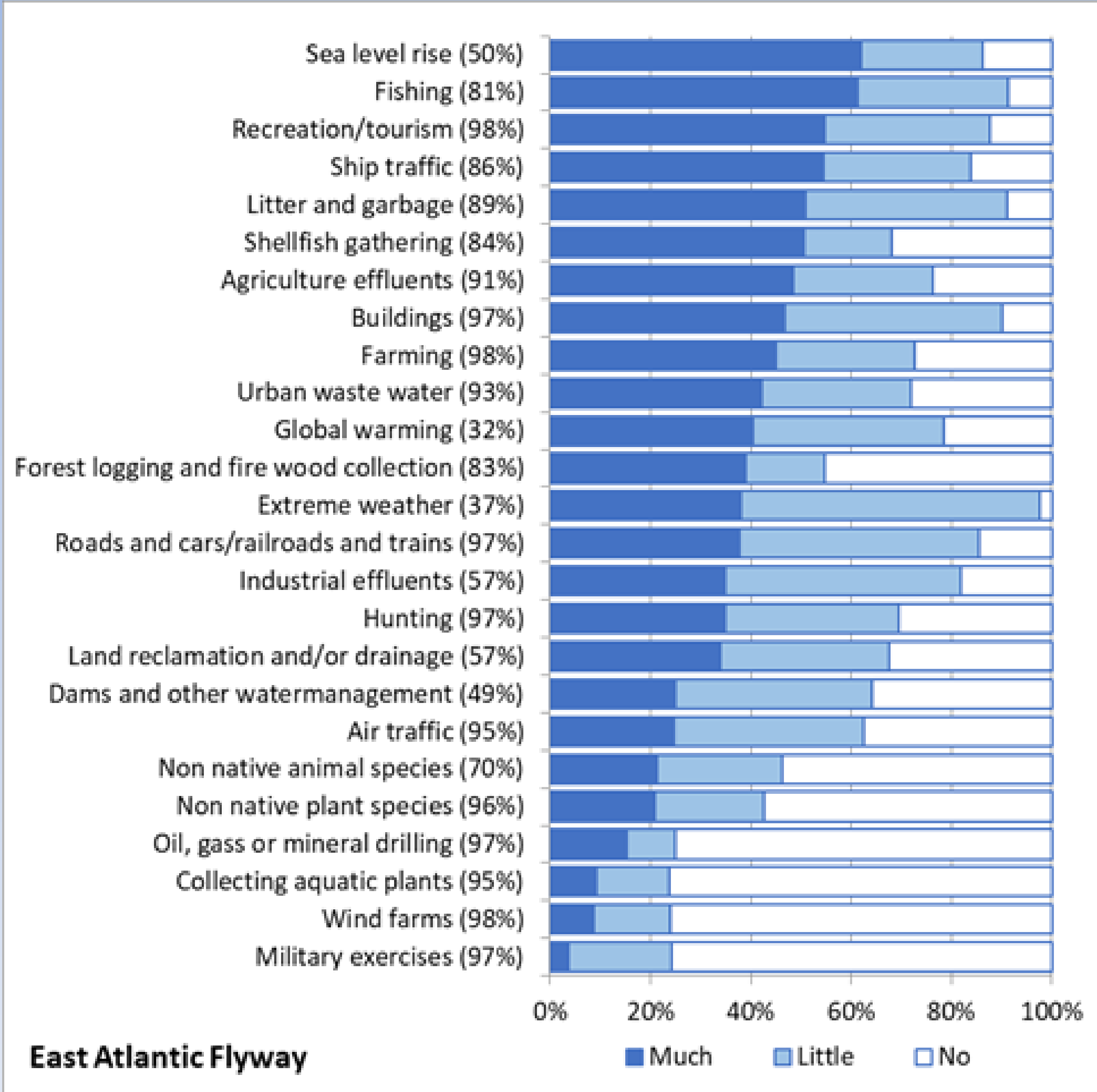

Fishing



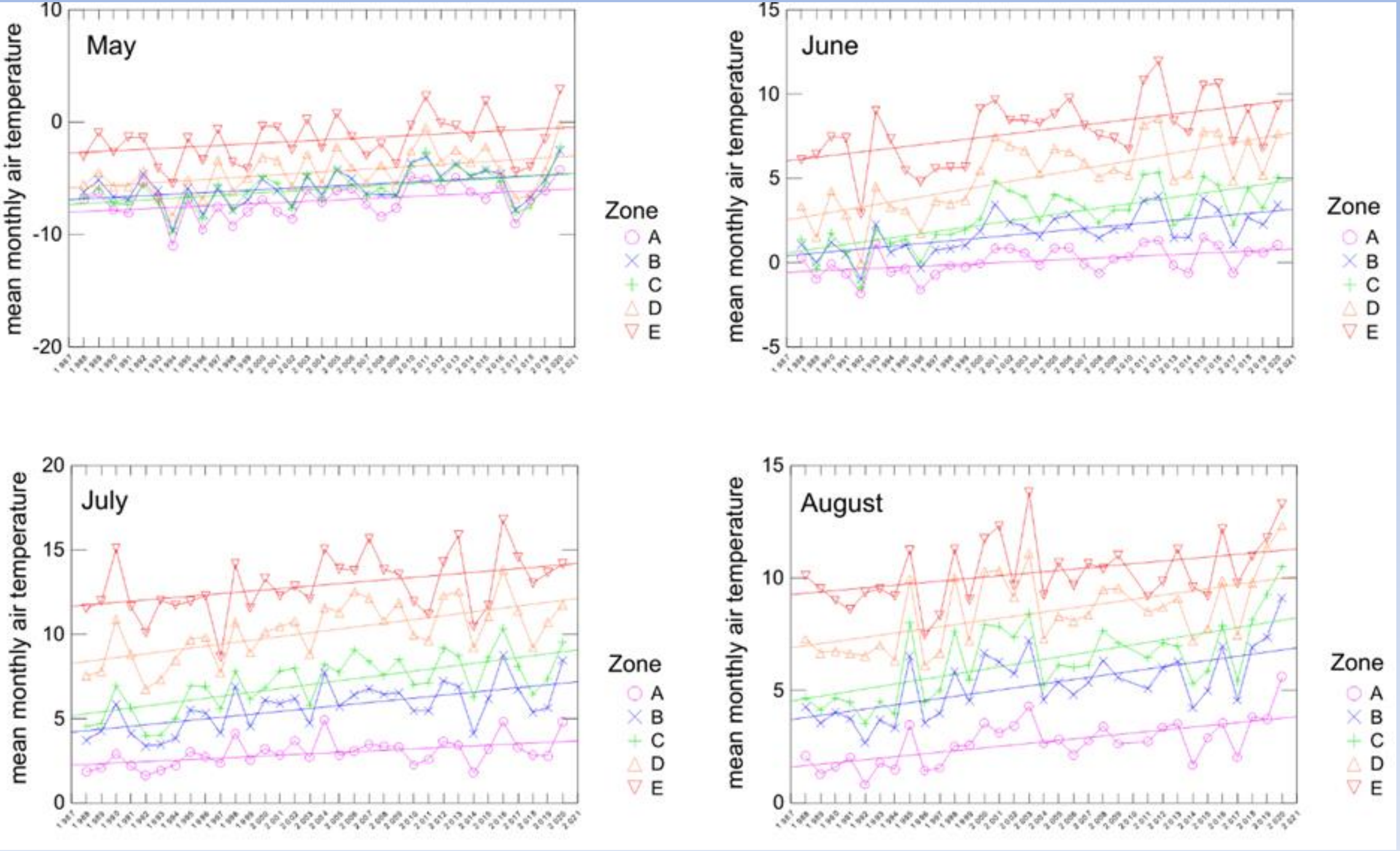

Recreation/tourism



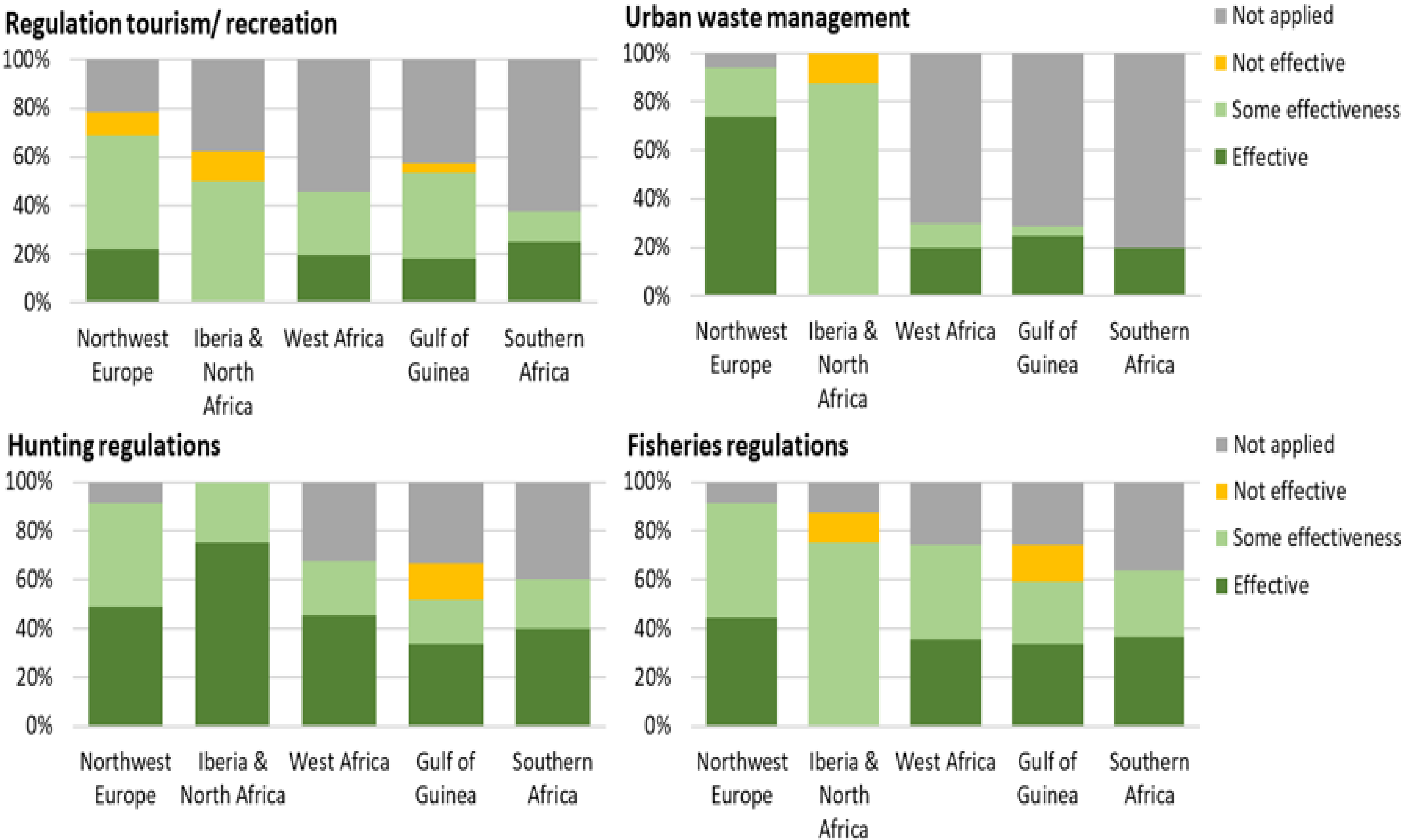
# Most mentioned pressures



# Climate change in Siberia



# Management actions taken



# Investigating range shifts during winter

| IWCCOUNTRY | 1980 | 1995 | 2014 | 2020 |
|---|---|---|---|---|
| Total | 25.542 | 26.960 | 30.141 | 26.565 |
| Norway | 0 | 0 | 0 | 0 |
| Sweden | 0 | 0 | 0 | 0 |
| Denmark | 0 | 0 | 0 | 0 |
| Germany | 0 | 3 | 0 | 51 |
| United Kingdom | 400 | 269 | 770 | 920 |
| Ireland | 400 | 500 | 890 | 1.200 |
| Netherlands | 0 | 5 | 16 | 27 |
| Belgium: Flanders | 0 | 0 | 0 | 0 |
| France | 100 | 125 | 500 | 651 |
| Spain | 200 | 517 | 3.500 | 2.481 |
| Portugal | 100 | 130 | 300 | 319 |
| Italy | 500 | 150 | 325 | 745 |
| Tunisia | 700 | 118 | 260 | 570 |
| Algeria | 0 | 39 | 50 | 329 |
| Morocco | 400 | 169 | 80 | 1.080 |
| Mauritania | 1.300 | 4.252 | 7.100 | 4.294 |
| Senegal | 2.300 | 1.241 | 750 | 1.909 |
| Gambia | 200 | 200 | 65 | 95 |
| Guinea Bissau | 3.800 | 1.400 | 2.400 | 3.595 |
| Guinea | 8.300 | 8.300 | 3.700 | 3.600 |
| Sierra Leone | 680 | 680 | 1.850 | 1.760 |
| Liberia | 300 | 3.000 | 3.000 | 0 |
| Côte d'Ivoire | 6 | 6 | 25 | 40 |
| Ghana | 5.279 | 5.279 | 4.300 | 2.672 |
| Togo | 87 | 87 | 90 | 90 |
| Benin | 411 | 411 | 150 | 126 |
| Nigeria | 79 | 79 | 20 | 11 |

## Greenshank

| regional totals | 1980 &1995 | 2014&2020 | change |
|---|---|---|---|
| Scandinavia | 0 | 0 | 0,00 |
| Germany | 2 | 26 | 17,00 |
| Netherlands - Belgium | 3 | 22 | 8,60 |
| UK - Ireland | 785 | 1.890 | 2,41 |
| France | 113 | 576 | 5,12 |
| Iberia | 474 | 3.300 | 6,97 |
| Morocco - W Mediterr. | 1.038 | 1.720 | 1,66 |
| Mauritania | 2.776 | 5.697 | 2,05 |
| Senegal - Sierra Leone | 13.551 | 9.862 | 0,73 |
| Liberia - Nigeria | 7.512 | 5.262 | 0,70 |

# Investigating range shifts during winter

| IWCCOUNTRY | 1980 | 1995 | 2014 | 2020 |
|---|---|---|---|---|
| Total | 25.542 | 26.960 | 30.141 | 26.565 |
| Norway | 0 | 0 | 0 | 0 |
| Sweden | 0 | 0 | 0 | 0 |
| Denmark | 0 | 0 | 0 | 0 |
| Germany | 0 | 3 | 0 | 51 |
| United Kingdom | 400 | 269 | 770 | 920 |
| Ireland | 400 | 500 | 890 | 1.200 |
| Netherlands | 0 | 5 | 16 | 27 |
| Belgium: Flanders | 0 | 0 | 0 | 0 |
| France | 100 | 125 | 500 | 651 |
| Spain | 200 | 517 | 3.500 | 2.481 |
| Portugal | 100 | 130 | 300 | 319 |
| Italy | 500 | 150 | 325 | 745 |
| Tunisia | 700 | 118 | 260 | 570 |
| Algeria | 0 | 39 | 50 | 329 |
| Morocco | 400 | 169 | 80 | 1.080 |
| Mauritania | 1.300 | 4.252 | 7.100 | 4.294 |
| Senegal | 2.300 | 1.241 | 750 | 1.909 |
| Gambia | 200 | 200 | 65 | 95 |
| Guinea Bissau | 3.800 | 1.400 | 2.400 | 3.595 |
| Guinea | 8.300 | 8.300 | 3.700 | 3.600 |
| Sierra Leone | 680 | 680 | 1.850 | 1.760 |
| Liberia | 300 | 3.000 | 3.000 | 0 |
| Côte d'Ivoire | 6 | 6 | 25 | 40 |
| Ghana | 5.279 | 5.279 | 4.300 | 2.672 |
| Togo | 87 | 87 | 90 | 90 |
| Benin | 411 | 411 | 150 | 126 |
| Nigeria | 79 | 79 | 20 | 11 |

## Greenshank

| regional totals | 1980 &1995 | 2014&2020 | change |
|---|---|---|---|
| Scandinavia | 0 | 0 | 0,00 |
| Germany | 2 | 26 | 17,00 |
| Netherlands - Belgium | 3 | 22 | 8,60 |
| UK - Ireland | 785 | 1.890 | 2,41 |
| France | 113 | 576 | 5,12 |
| Iberia | 474 | 3.300 | 6,97 |
| Morocco - W Mediterr. | 1.038 | 1.720 | 1,66 |
| Mauritania | 2.776 | 5.697 | 2,05 |
| Senegal - Sierra Leone | 13.551 | 9.862 | 0,73 |
| Liberia - Nigeria | 7.512 | 5.262 | 0,70 |

# Investigating range shifts during winter

| IWCCOUNTRY | 1980 | 1995 | 2014 | 2020 |
|---|---|---|---|---|
| Total | 25.542 | 26.960 | 30.141 | 26.565 |
| Norway | 0 | 0 | 0 | 0 |
| Sweden | 0 | 0 | 0 | 0 |
| Denmark | 0 | 0 | 0 | 0 |
| Germany | 0 | 3 | 0 | 51 |
| United Kingdom | 400 | 269 | 770 | 920 |
| Ireland | 400 | 500 | 890 | 1.200 |
| Netherlands | 0 | 5 | 16 | 27 |
| Belgium: Flanders | 0 | 0 | 0 | 0 |
| France | 100 | 125 | 500 | 651 |
| Spain | 200 | 517 | 3.500 | 2.481 |
| Portugal | 100 | 130 | 300 | 319 |
| Italy | 500 | 150 | 325 | 745 |
| Tunisia | 700 | 118 | 260 | 570 |
| Algeria | 0 | 39 | 50 | 329 |
| Morocco | 400 | 169 | 80 | 1.080 |
| Mauritania | 1.300 | 4.252 | 7.100 | 4.294 |
| Senegal | 2.300 | 1.241 | 750 | 1.909 |
| Gambia | 200 | 200 | 65 | 95 |
| Guinea Bissau | 3.800 | 1.400 | 2.400 | 3.595 |
| Guinea | 8.300 | 8.300 | 3.700 | 3.600 |
| Sierra Leone | 680 | 680 | 1.850 | 1.760 |
| Liberia | 300 | 3.000 | 3.000 | 0 |
| Côte d'Ivoire | 6 | 6 | 25 | 40 |
| Ghana | 5.279 | 5.279 | 4.300 | 2.672 |
| Togo | 87 | 87 | 90 | 90 |
| Benin | 411 | 411 | 150 | 126 |
| Nigeria | 79 | 79 | 20 | 11 |

## Greenshank

| regional totals | 1980 &1995 | 2014&2020 | change |
|---|---|---|---|
| Scandinavia | 0 | 0 | 0,00 |
| Germany | 2 | 26 | 17,00 |
| Netherlands - Belgium | 3 | 22 | 8,60 |
| UK - Ireland | 785 | 1.890 | 2,41 |
| France | 113 | 576 | 5,12 |
| Iberia | 474 | 3.300 | 6,97 |
| Morocco - W Mediterr. | 1.038 | 1.720 | 1,66 |
| Mauritania | 2.776 | 5.697 | 2,05 |
| Senegal - Sierra Leone | 13.551 | 9.862 | 0,73 |
| Liberia - Nigeria | 7.512 | 5.262 | 0,70 |

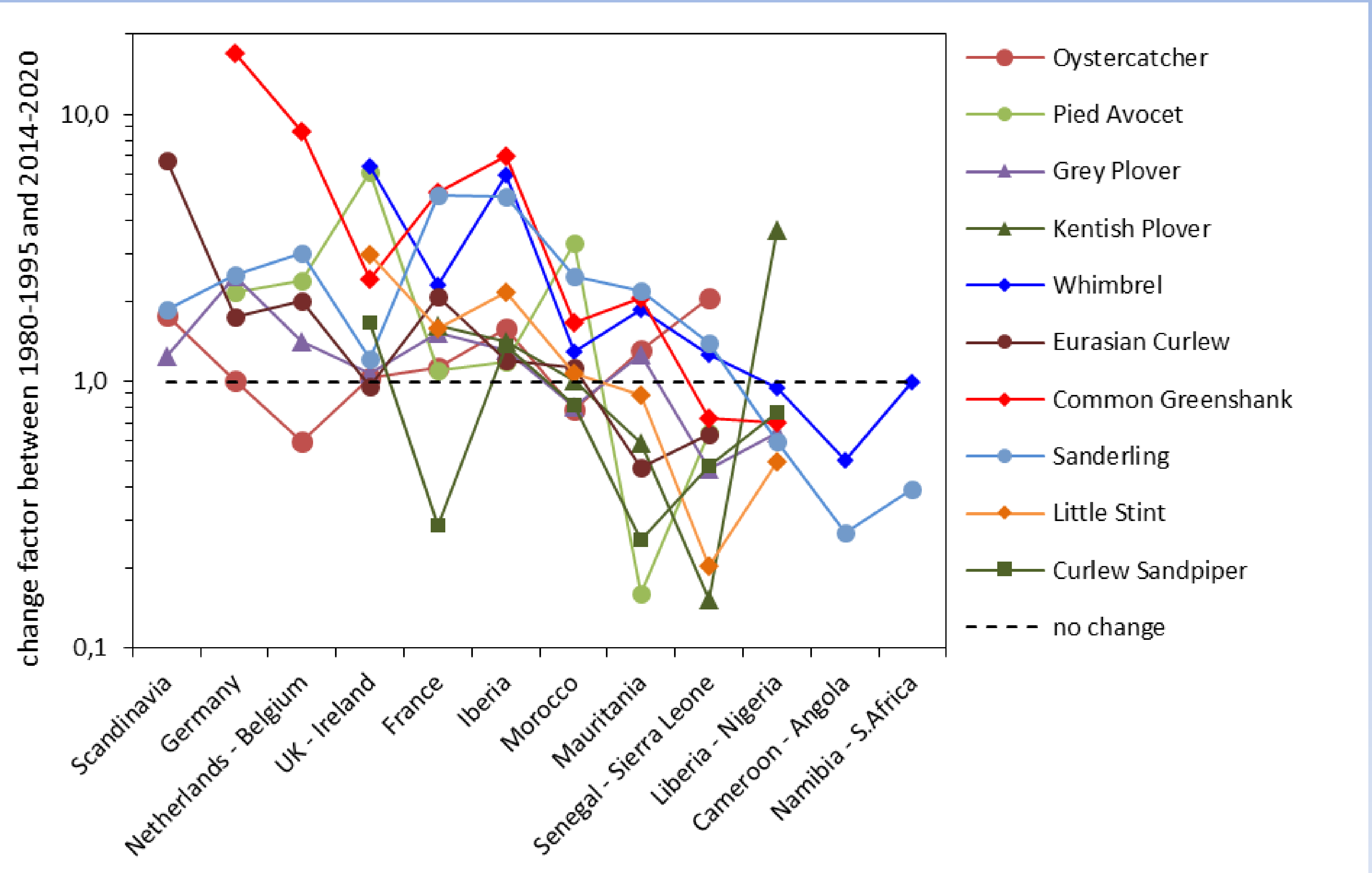
# Investigating range shifts during winter

| IWCCOUNTRY | 1980 | 1995 | 2014 | 2020 |
|---|---|---|---|---|
| Total | 25.542 | 26.960 | 30.141 | 26.565 |
| Norway | 0 | 0 | 0 | 0 |
| Sweden | 0 | 0 | 0 | 0 |
| Denmark | 0 | 0 | 0 | 0 |
| Germany | 0 | 3 | 0 | 51 |
| United Kingdom | 400 | 269 | 770 | 920 |
| Ireland | 400 | 500 | 890 | 1.200 |
| Netherlands | 0 | 5 | 16 | 27 |
| Belgium: Flanders | 0 | 0 | 0 | 0 |
| France | 100 | 125 | 500 | 651 |
| Spain | 200 | 517 | 3.500 | 2.481 |
| Portugal | 100 | 130 | 300 | 319 |
| Italy | 500 | 150 | 325 | 745 |
| Tunisia | 700 | 118 | 260 | 570 |
| Algeria | 0 | 39 | 50 | 329 |
| Morocco | 400 | 169 | 80 | 1.080 |
| Mauritania | 1.300 | 4.252 | 7.100 | 4.294 |
| Senegal | 2.300 | 1.241 | 750 | 1.909 |
| Gambia | 200 | 200 | 65 | 95 |
| Guinea Bissau | 3.800 | 1.400 | 2.400 | 3.595 |
| Guinea | 8.300 | 8.300 | 3.700 | 3.600 |
| Sierra Leone | 680 | 680 | 1.850 | 1.760 |
| Liberia | 300 | 3.000 | 3.000 | 0 |
| Côte d'Ivoire | 6 | 6 | 25 | 40 |
| Ghana | 5.279 | 5.279 | 4.300 | 2.672 |
| Togo | 87 | 87 | 90 | 90 |
| Benin | 411 | 411 | 150 | 126 |
| Nigeria | 79 | 79 | 20 | 11 |

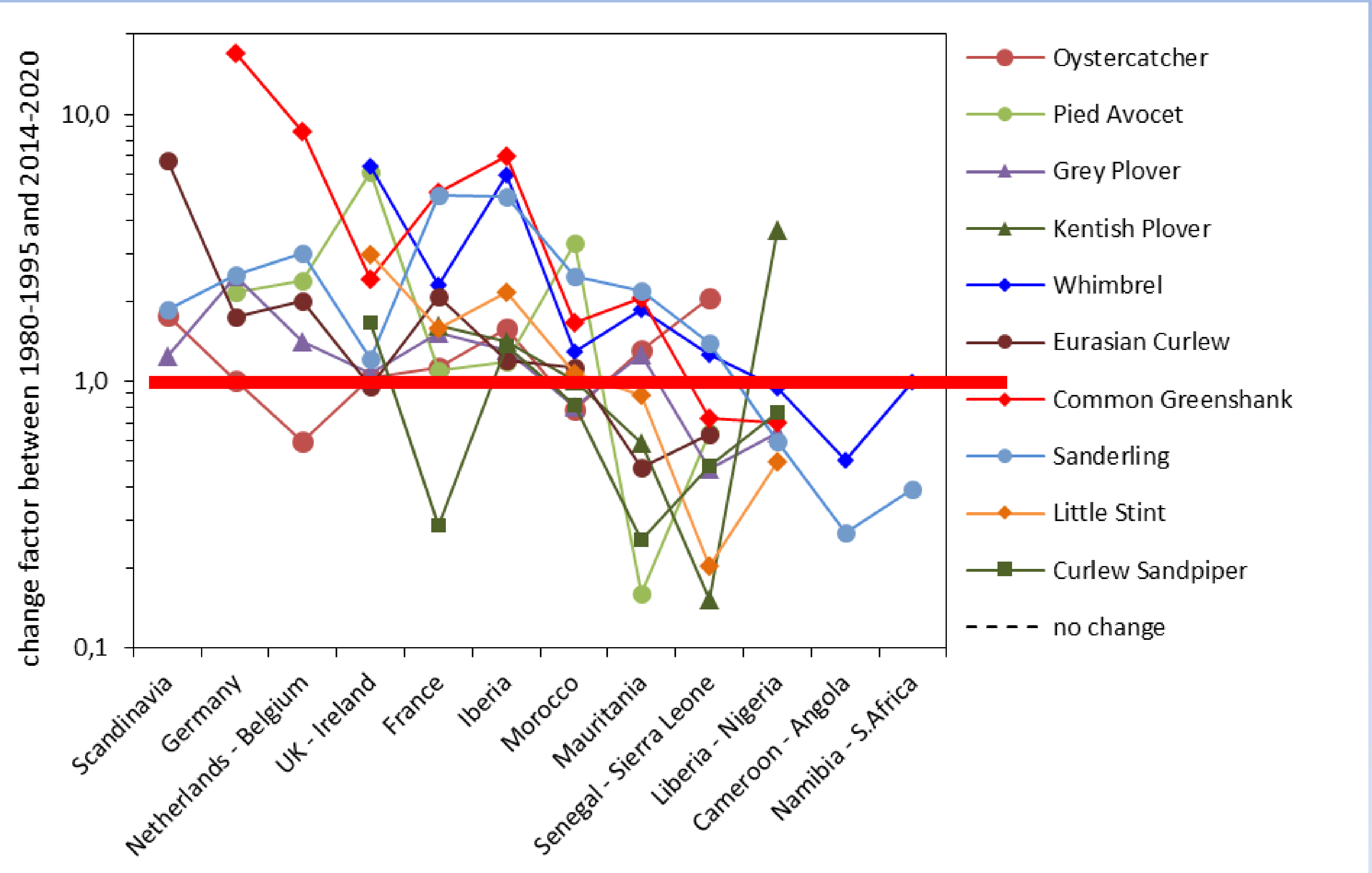
## Greenshank

| regional totals | 1980 &1995 | 2014&2020 | change |
|---|---|---|---|
| Scandinavia | 0 | 0 | 0,00 |
| Germany | 2 | 26 | 17,00 |
| Netherlands - Belgium | 3 | 22 | 8,60 |
| UK - Ireland | 785 | 1.890 | 2,41 |
| France | 113 | 576 | 5,12 |
| Iberia | 474 | 3.300 | 6,97 |
| Morocco - W Mediterr. | 1.038 | 1.720 | 1,66 |
| Mauritania | 2.776 | 5.697 | 2,05 |
| Senegal - Sierra Leone | 13.551 | 9.862 | 0,73 |
| Liberia - Nigeria | 7.512 | 5.262 | 0,70 |

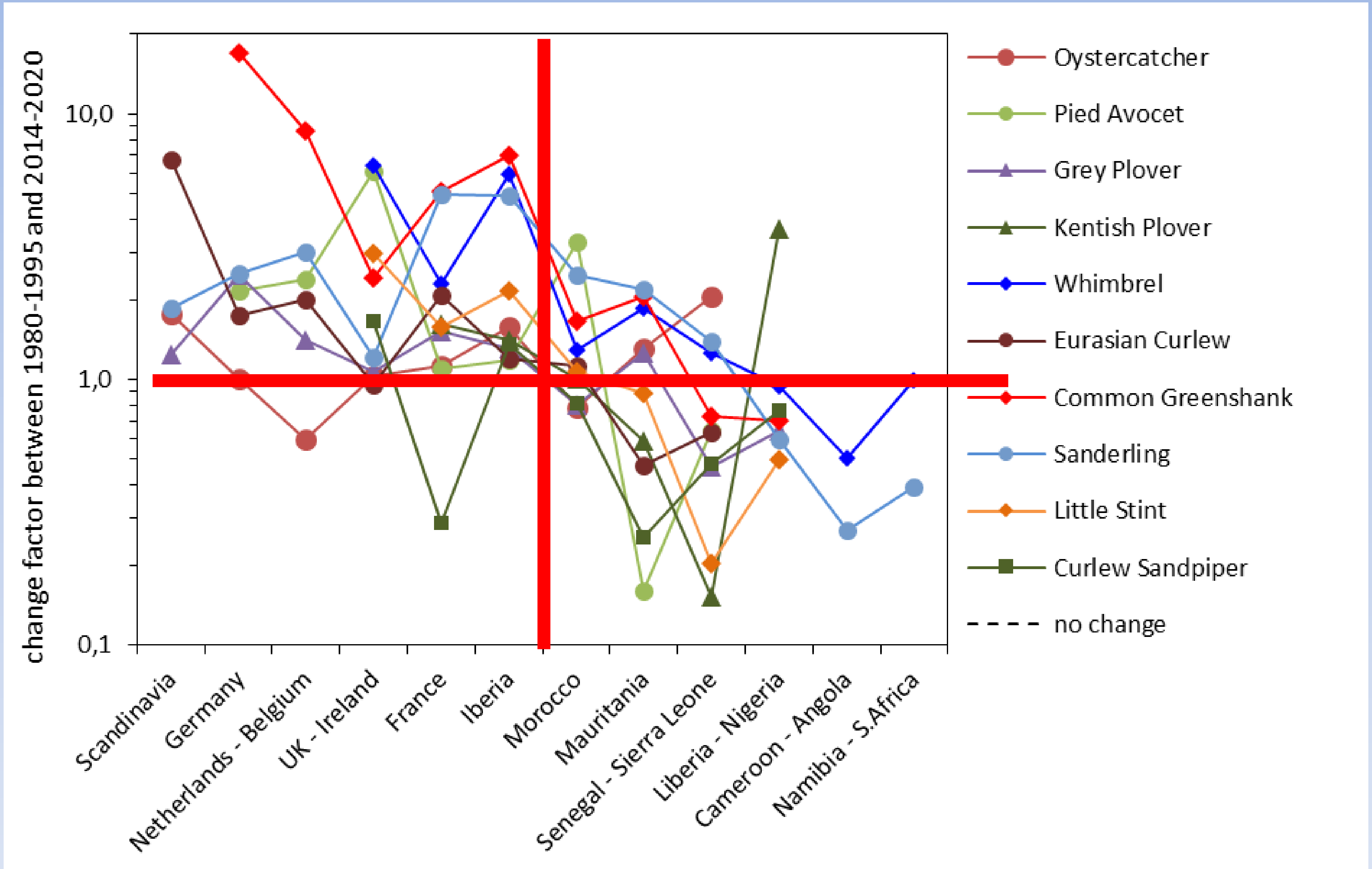
# Change factor per species across the winter range

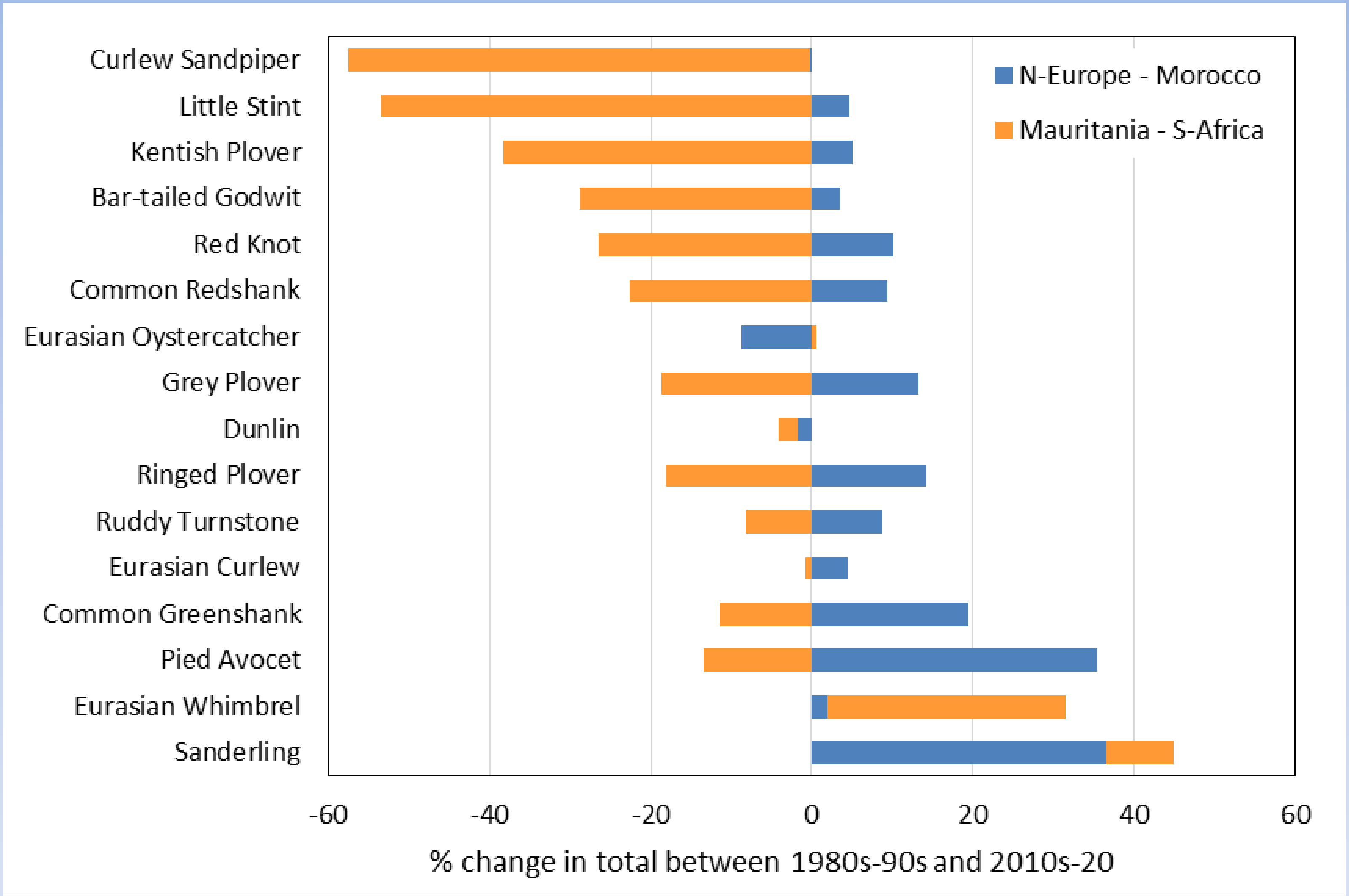


# Change factor per species across the winter range



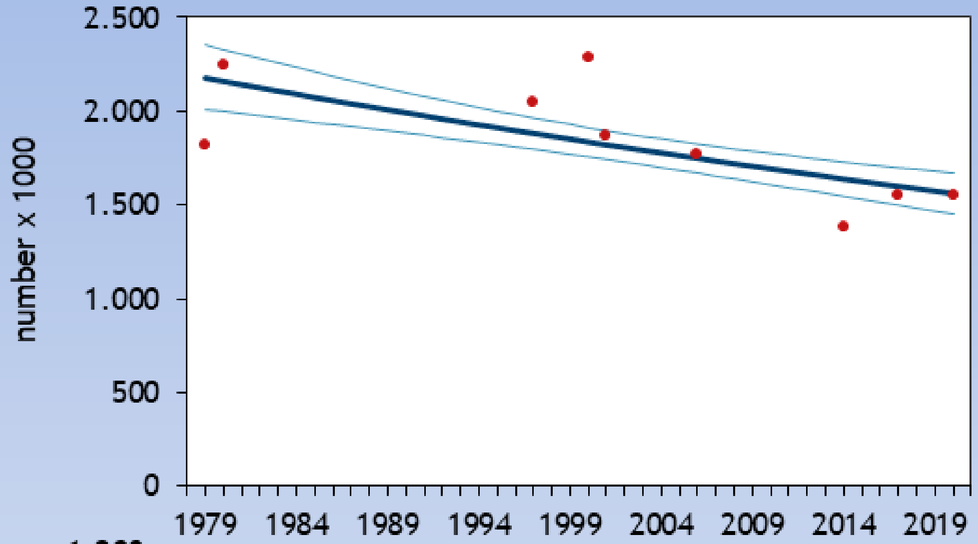
# Change factor per species across the winter range



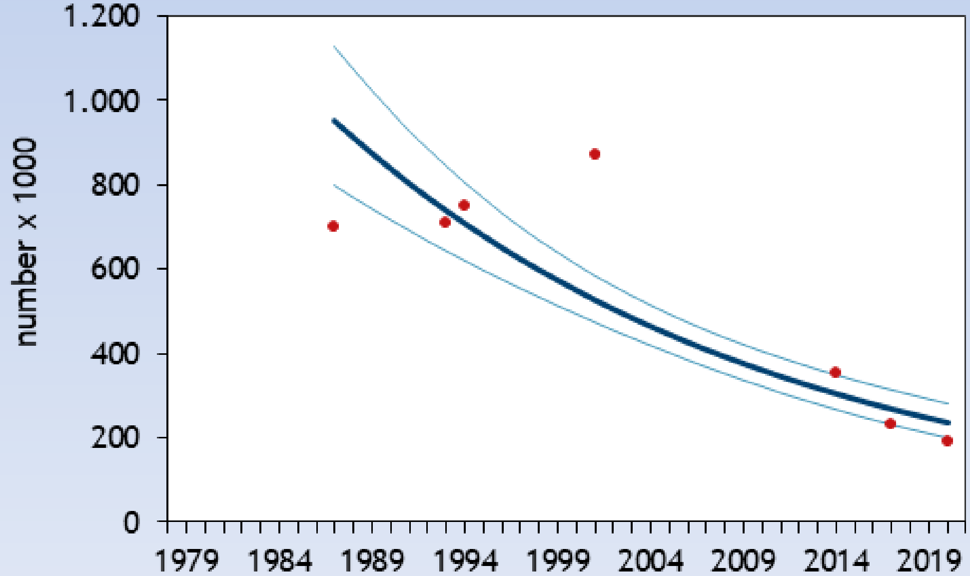


Curlew Sandpiper
Little Stint
Kentish Plover
Bar-tailed Godwit
Red Knot
Common Redshank
Eurasian Oystercatcher
Grey Plover
Dunlin
Ringed Plover
Ruddy Turnstone
Eurasian Curlew
Common Greenshank
Pied Avocet
Eurasian Whimbrel
Sanderling
N-Europe - Morocco
Mauritania - S-Africa
-60
-40
-20
0
20
40
60
% change in total between 1980s-90s and 2010s-20

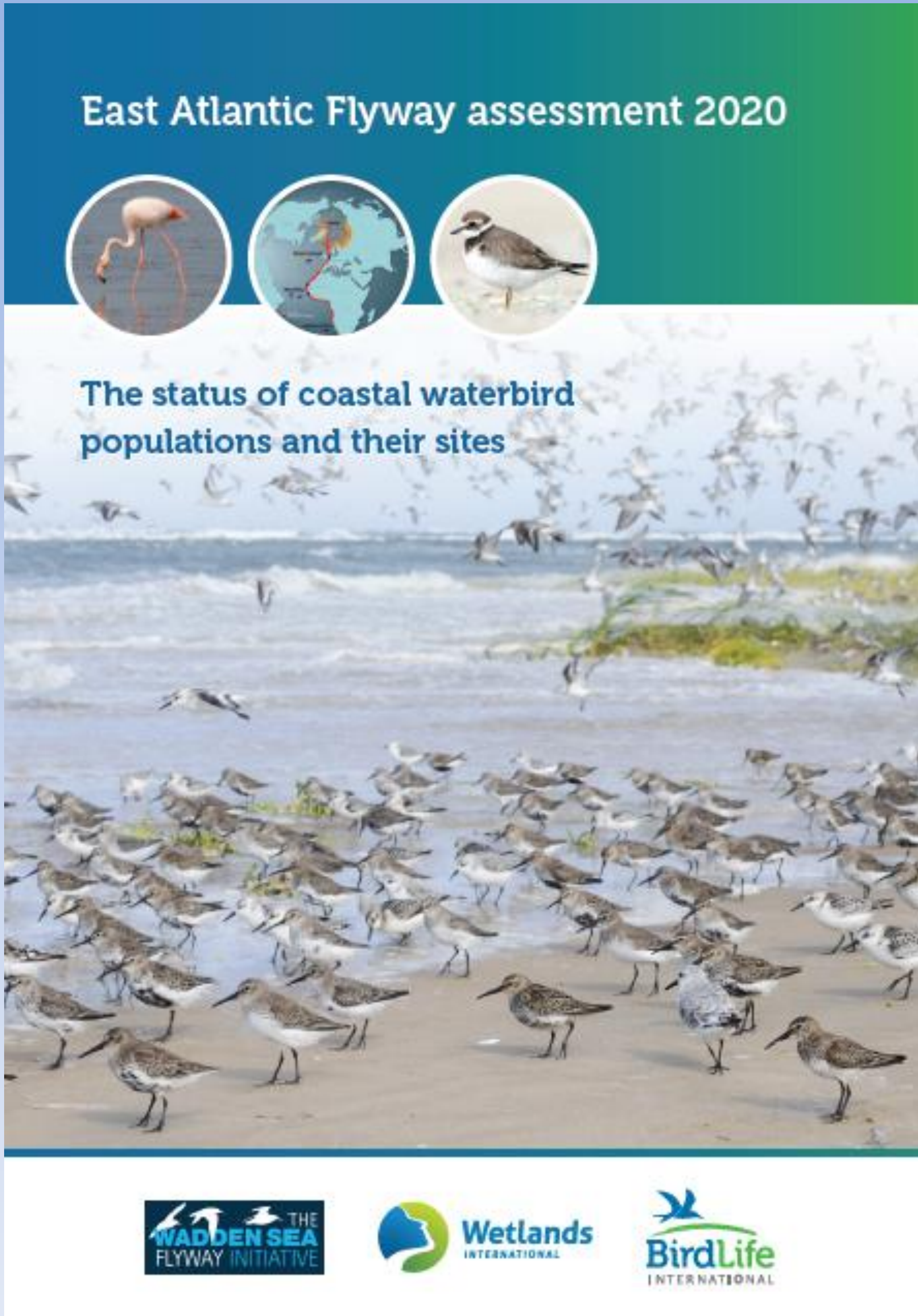
# Trends in total wader numbers at most important African sites




**Banc d Arguin, Mauritania**

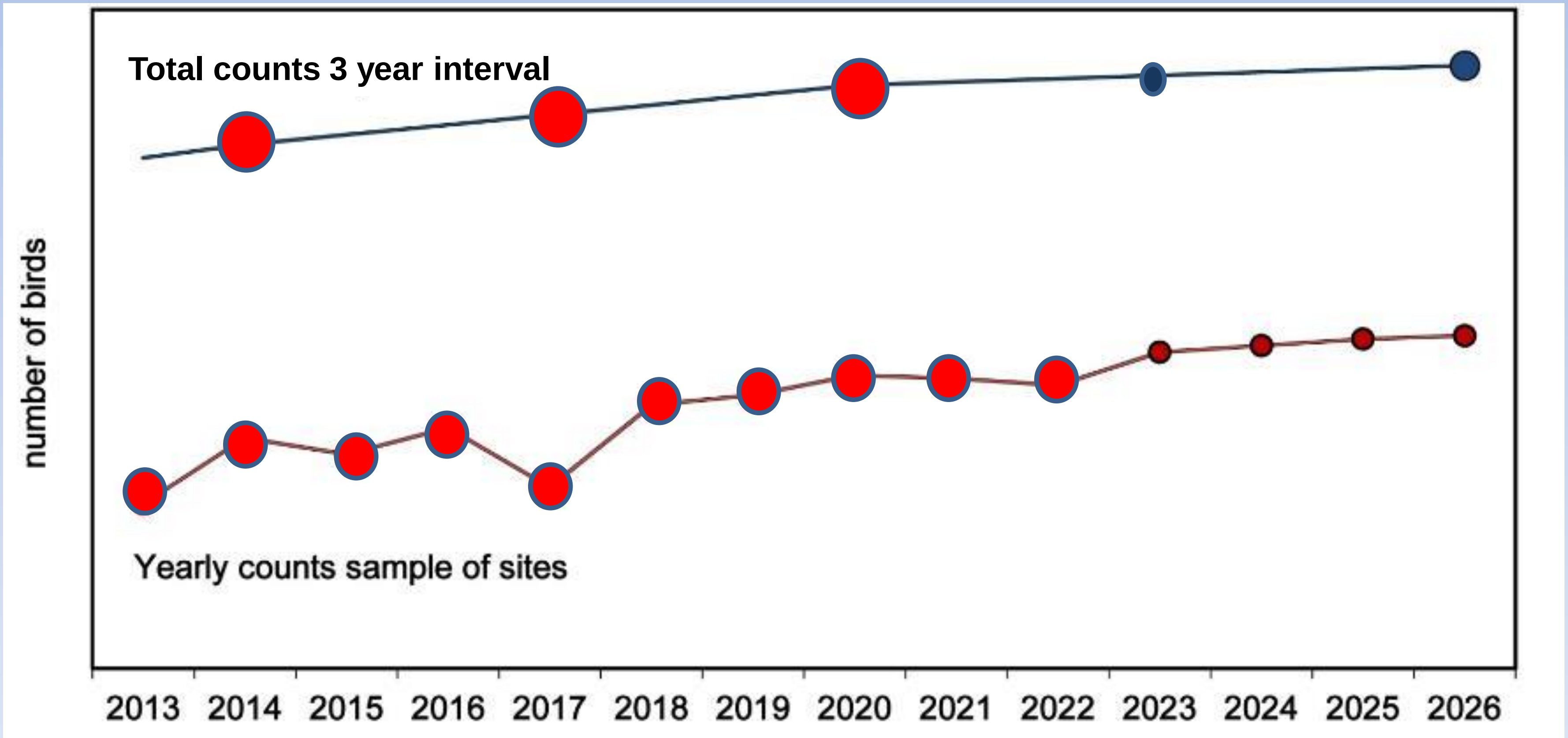



**Archipelago Bijagos, Guinee Bissau**

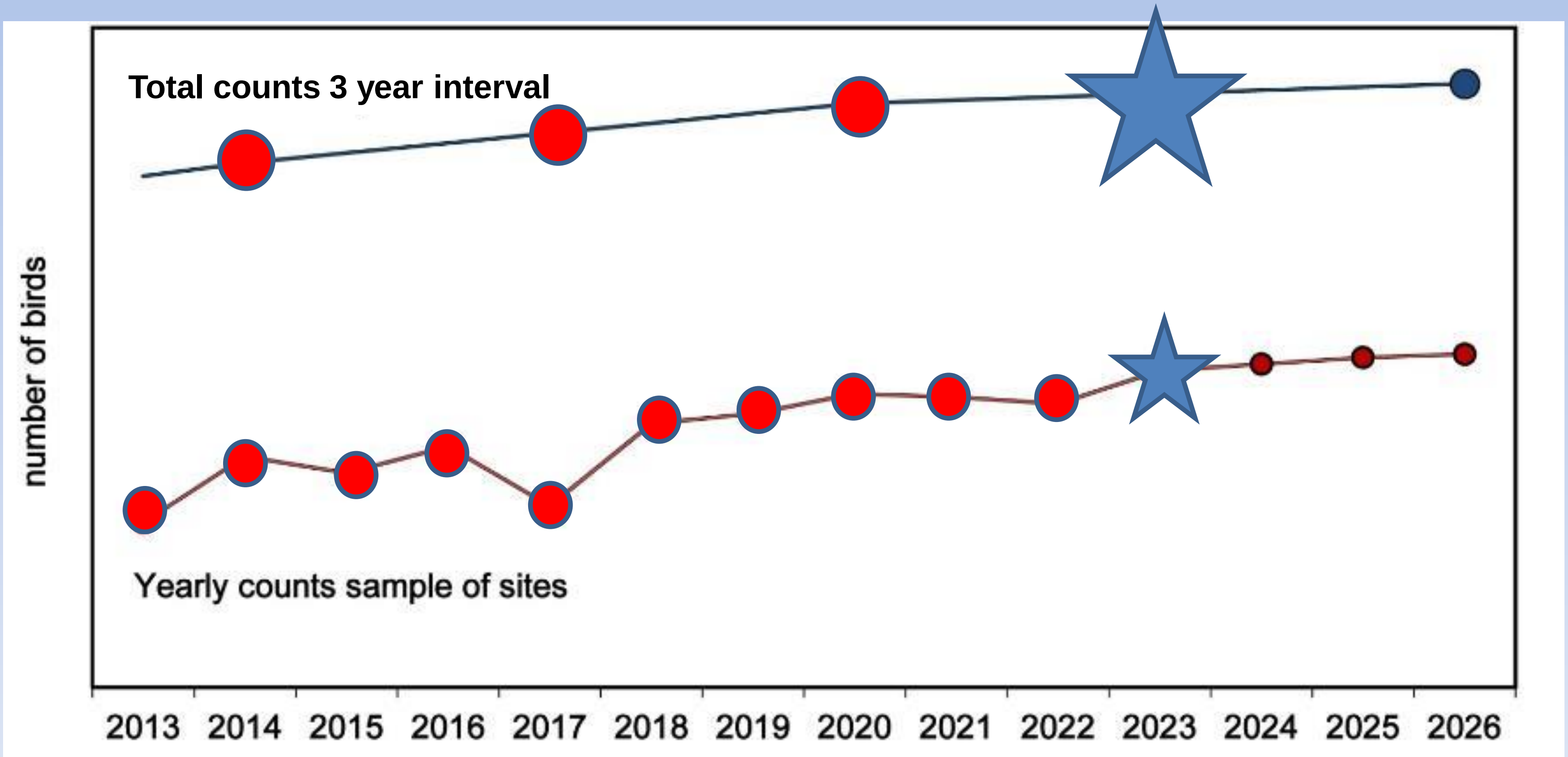


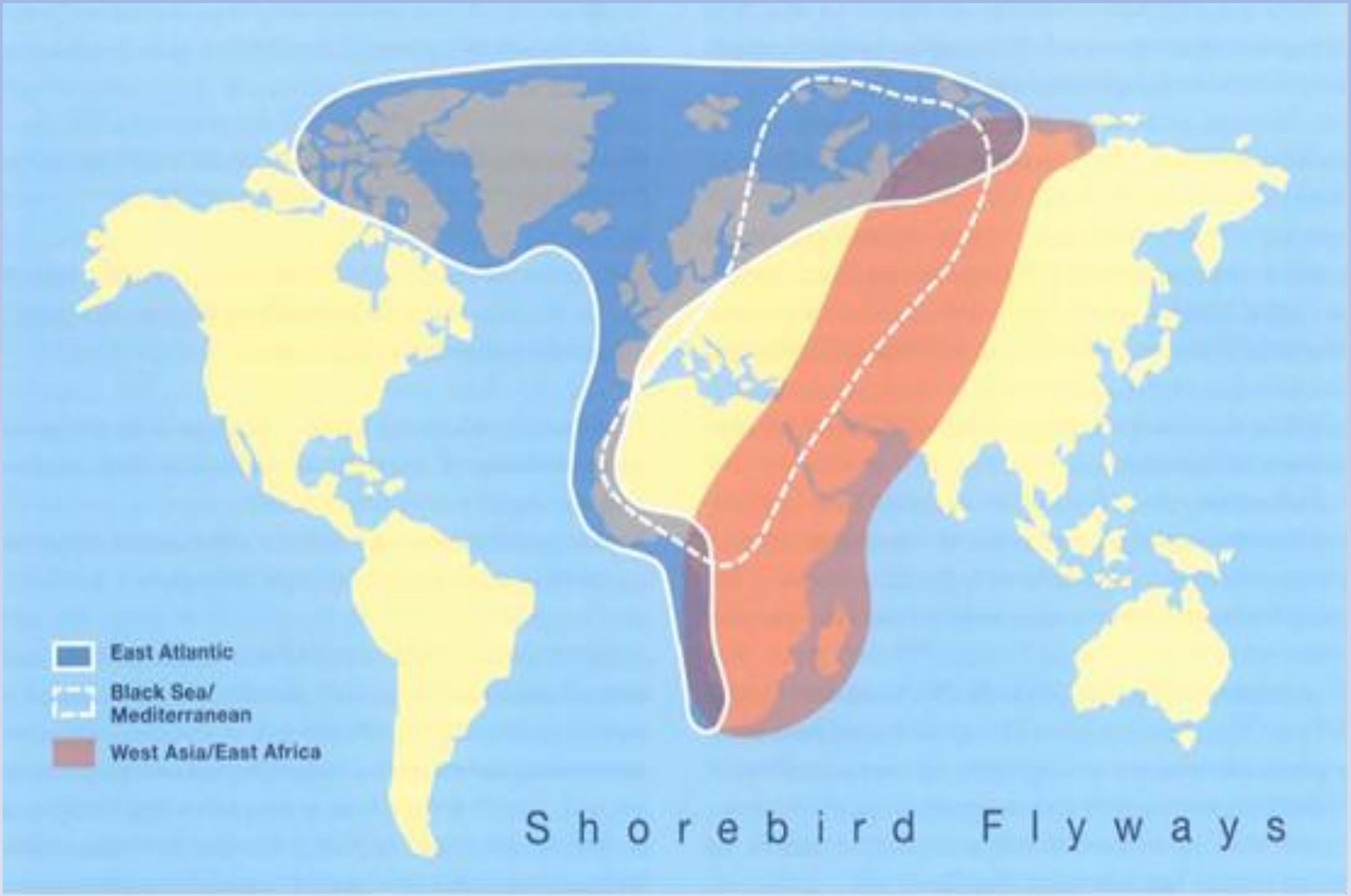

**Available as PdF from website end of April 2022 and also hard copies will become available**

# What has been carried out



# What will come: total count January 2023




East Atlantic
Black Sea/
Mediterranean
West Asia/East Africa
Shorebird Flyways

# Thanks for attention!

Thanks to

- Funders (Min LNV NL, national parks Germany – Denmark)
- Co-funding: Mava, Webs, Tour du Valat
- Wetlands International, BirdLife International,
- National coordinators and observers!